

Section 25: Semiconductors

Sub-Section

Page

Semiconductors654

Semiconductors



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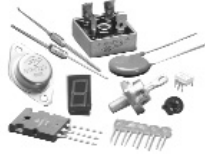


Semiconductors



Integrated Circuits - CMOS

Now Includes Surface Mount Types ("T Suffix")



Part #	Description
NTE4001B	14-Lead DIP Quad 2-Input NOR Gate
NTE4001BT	SOIC-14 Quad 2-Input NOR Gate
NTE4002B	14-Lead DIP Dual 4-Input NOR Gate
NTE4002BT	SOIC-14 Dual 4-Input NOR Gate
NTE4006B	14-Lead DIP 18-Stage Static Shift Register
NTE4007	14-Lead DIP Dual Complementary Pair Plus Inverter
NTE4007T	SOIC-14 Dual Complementary Pair Plus Inverter
NTE4008B	16-Lead DIP 4-Bit Full Adder w/Parallel Carry Out
NTE4009	16-Lead DIP Hex Buffer/Converter (Inverting)
NTE40098B	16-Lead DIP 32-Stage Static Left/Right Shift Register Inverting
NTE40100B	14-Lead DIP Hex Schmitt Trigger
NTE40106B	SOIC-14 Hex Schmitt Trigger
NTE4011B	14-Lead DIP Quad 2-Input NAND Gate
NTE4011BT	SOIC-14 Quad 2-Input NAND Gate
NTE4012B	14-Lead DIP Dual 4-Input NAND Gate
NTE4012BT	SOIC-14 Dual 4-Input NAND Gate
NTE4013B	14-Lead DIP Dual D-Type Flip-Flop
NTE4013BT	SOIC-14 Dual D-Type Flip-Flop
NTE4014B	16-Lead DIP 8-Stage Shift Register Synchronous Parallel or Serial Input/Serial Output
NTE4015B	16-Lead Dual 4-Stage Static Shift Register w/Seriel Input/Parallel Output
NTE4015BT	SOIC-16 Dual 4-Stage Static Shift Register w/ Seriel Input/Parallel Output
NTE40162B	Synchronous Programmable 4-Bit Counter BCD counter w/ Synchronous Clear
NTE40163B	Synchronous Programmable 4-Bit Counter Binary Counter w/ Synchronous Clear
NTE4016B	14-Lead DIP Quad Bilateral Switch for Transmission or Multiplexing of Analog or Digital Signals
NTE4016BT	SOIC-14 quad Bilateral Switch for Transmission or Multiplexing of Analog or Digital Signals
NTE40174B	16-Lead DIP Hex D-Type Flip-Flop
NTE40174BT	Hex D-Type Flip-Flop
NTE40175B	Quad D-Type Flip-Flop
NTE4017B	16-Lead DIP Decade Counter w/10 Decoded Outputs
NTE40182B	16-Lead DIP Look Ahead Carry Generator
NTE4018B	16-Lead DIP Presettable Divide-by-"N" Carrier
NTE40192B	16-Lead DIP BCD Presettable Up/Down Counter (Dual Clock w/Reset)
NTE40193B	16-Lead DIP Binary Presettable Up/Down Counter (Dual Clock w/Reset)
NTE40194B	16-Lead DIP 4-Bit Bidirectional Universal Shift Register w/Asynchronous Master Reset
NTE40195B	16-Lead DIP 4-Bit Shift Register
NTE4019B	16-Lead DIP Quad and/or Select Gate
NTE4020B	16-Lead DIP 14-Stage Ripple-Carry Binary Counter/Divider
NTE4020BT	SOIC-16 14-Stage Ripple-Carry Binary Counter/Divider
NTE4021B	16-Lead DIP 8-Stage Static Shift Register Asynchronous Parallel Input or Synchronous Serial Input/Serial Output
NTE4021BT	SOIC-16 8-Stage Static Shift Register Asynchronous Parallel Input or Synchronous Serial Input/Serial Output
NTE4022B	16-Lead DIP Octal Counter/Divider w/ 8 Decoded Outputs
NTE4023B	14-Lead DIP Triple 3-Input NAND Gate
NTE4023BT	SOIC-14 Triple 3-Input NAND Gate
NTE4024B	14-Lead DIP 7-Stage Ripple-Carry Binary Counter/Divider
NTE4025B	14-Lead DIP Triple 3-Input NOR Gate
NTE4025BT	SOIC-14 Triple 3-Input NOR Gate

Integrated Circuits - CMOS (cont.)

Part #	Description
NTE4026B	16-Lead DIP Decade Counter/Divider w/ Decoded Seven-Segment Display Outputs & display Enable
NTE4027B	16-Lead DIP Dual J-K Master-Slave Flip-Flop
NTE4027BT	SOIC-16 Dual J-K Master-Slave Flip-Flop
NTE4028B	16-Lead DIP BCD-to-Decimal Decoder
NTE4028BT	SOIC-16 BCD-to-Decimal Decoder
NTE4029B	16-Lead DIP Presettable Up/Down Counter Binary or BCD Decade Decoder
NTE4029BT	SOIC-16 Presettable Up/Down Counter Binary or BCD Decade Decoder
NTE4030B	14-Lead DIP Quad Exclusive OR Gate
NTE4031B	16-Lead DIP 64-Stage Static Shift Register
NTE4032B	16-Lead DIP (Pos Logic) Triple Serial Logic Adder
NTE4033B	16-Lead DIP Decade Counter/Divider w/Decoded Seven-Segment Display Outputs & Ripple Blanking
NTE4034B	24-Lead DIP 8-Stage Static Bidirectional Parallel/Serial Input/Output Bus Register
NTE4035B	16-Lead DIP 4-Stage Parallel In/Parallel Out Shift Register w/J-K Serial Input & True Complement Output
NTE4038B	16-Lead DIP (Neg Logic) Triple Serial Logic Adder
NTE4040B	16-Lead DIP 12-Stage Ripple-Carry Binary Counter/Divider
NTE4040BT	SOIC-16 12-Stage Ripple-Carry Binary Counter/Divider
NTE4041	14-Lead DIP Quad True/Complement Buffer
NTE4042B	16-Lead DIP Quad Clocked D-Type Latch
NTE4042BT	SOIC-16 Quad Clocked D-Type Latch
NTE4043B	16-Lead DIP Quad 3-State NOR R/S Latch
NTE4043BT	SOIC-16 Quad 3-State NOR R/S Latch
NTE4044B	16-Lead DIP Quad 3-State NAND R/S Latch
NTE4044BT	SOIC-16 Quad 3-State NAND R/S Latch
NTE4045B	16-Lead DIP 21-Stage Counter Observe Power Supply connections Vdd is Pin3 & Vss is Pin14 NOT Pins 16 & 8 respectively as in other 4000 series 16-Lead devices.
NTE4045BT	SOIC-16 21-Stage Counter
NTE4046B	16-Lead DIP Phase Lock Loop (PLL)
NTE4046BT	SOIC-16 Phase Lock Loop (PLL)
NTE4047B	14-Lead DIP Low Power Monostable/Astable Multivibrator
NTE4047BT	SOIC-14 Low Power Monostable/Astable Multivibrator
NTE4048B	16-Lead DIP Multi-Function Expandable 8-Input Gate
NTE4049	Inverting 16-Lead DIP Hex Buffer/Converter
NTE4049T	Inverted SOIC-16 Hex buffer/Converter
NTE4050B	Non-Inverting Hex buffer/Converter (Pins 2 4 6 10 12 and 15 are not inverted)
NTE4050BT	Non-Inverted Hex Buffer/Converter
NTE4051B	16-Lead DIP Analog Single 8-Channel Multiplexer/Demultiplexer
NTE4051BT	SOIC-14 DIP Analog Single 8-Channel Multiplexer/Demultiplexer
NTE4052B	16-Lead DIP Analog Differential 4-Channel Multiplexer
NTE4052BT	SOIC-16 Analog Differential 4-Channel Multiplexer
NTE4053B	16-Lead DIP Triple 2-Channel Analog Multiplexer
NTE4053BT	SOIC-16 Triple 2-Channel Analog Multiplexer
NTE4055B	16-Lead DIP BCD-to-7 Segment Decoder/Driver
NTE4056B	16-Lead DIP BCD-to-7 Segment Decoder/Driver
NTE4060B	16-Lead DIP 14-Stage Ripple-Carry Binary Counter/Divider and OSC
NTE4060BT	SOIC-16 14-Stage Ripple-Carry Binary Counter/Divider and OSC
NTE4063B	16-Lead DIP 4-Bit Magnitude Comparator (High Voltage Type)
NTE4066B	14-Lead DIP Quad Bilateral Switch
NTE4066BT	SOIC-14 Quad Bilateral Switch

Semiconductors



Integrated Circuits - CMOS (cont.)

Part #	Description
NTE4067B	24-Lead DIP Analog Single 16-Channel Multiplexer/Demultiplexer
NTE4068B	14-Lead DIP 8-Input NAND/AND Gate (High Voltage Type)
NTE4068BT	SOIC-14 8-Input NAND/AND Gate (High Voltage Type)
NTE4069	14-Lead DIP Hex Inverter (High Voltage Type)
NTE4069T	SOIC-14 Hex Inverter (High Voltage Type)
NTE4070B	14-Lead DIP Quad Exclusive OR Gate
NTE4070BT	SOIC-14 Quad Exclusive OR Gate
NTE4071B	14-Lead DIP Quad 2-Input OR Gate
NTE4071BT	SOIC-14 Quad 2-Input OR Gate
NTE4072B	14-Lead DIP Dual 4-Input OR Gate
NTE4073B	14-Lead DIP Triple 3-Input AND Gate
NTE4073BT	SOIC-14 Triple 3-Input AND Gate
NTE4075B	14-Lead DIP Triple 3-Input OR Gate
NTE4075BT	SOIC-14 Triple 3-Input OR Gate
NTE4076B	16-Lead DIP 4-Bit D-Type Register (High Voltage Type)
NTE4077B	14-Lead DIP Quad Exclusive NOR Gate
NTE4077BT	SOIC-14 Quad Exclusive NOR Gate
NTE4078B	14-Lead DIP 8-Input NOR Gate
NTE4081B	14-Lead DIP Quad 2-Input AND Gate
NTE4082B	14-Lead DIP Dual 4-Input AND Gate
NTE4085B	14-Lead DIP Dual 2-Wide 2-Input AND/OR Invert Gate
NTE4086B	14-Lead DIP Expandable 4-Wide 2-Input AND/OR Invert Gate
NTE4089B	16-Lead DIP Binary Rate Multiplier
NTE4093B	14-Lead DIP Quad 2-Input NAND Schmitt Trigger
NTE4093BT	Soic-14 Quad 2-Input NAND Schmitt Trigger
NTE4094B	16-Lead DIP 8-Stage Shift & Storage Bus Register
NTE4094BT	SOIC-16 8-Stage Shift & Storage Bus Register
NTE4095B	14-Lead DIP Gated J-K Master/Slave Flip/Flop w/ set-reset Capability Non-Inverting J & K Inputs
NTE4096B	14-Lead DIP Gated J-K Master/Slave Flip/Flop w/ set-reset Capability Inverting and Non-Inverting J & K Inputs
NTE4097B	24-Lead DIP Analog Differential 8-Channel Multiplexer/Demultiplexer
NTE4098B	16-Lead DIP Dual Monostable Multivibrator (Pins 1 8 and 15 are electrically connected internally)
NTE4099B	18-Lead DIP 8-Bit Addressable Latch
NTE4501	16-Lead DIP Dual 4-Input NAND Gate 2-Input NOR/OR Gate 8-Input AND/NAND Gate Usa dotted connection externally to obtain 8-Input AND/NAND Pin 14 must NOT be used as an input to the inverter
NTE4503B	16-Lead DIP Hex 3-State Non-Inverting Buffer
NTE4510B	16-Lead DIP Presettable Up/Down BCD Counter
NTE4510BT	SOIC-16 Presettable Up/Down BCD Counter
NTE4511B	16-Lead DIP BCD-to-Seven-Segment Latch Decoder Driver
NTE4511BT	SOIC-16 BCD-to-Seven-Segment Latch Decoder Driver
NTE4512B	16-Lead DIP 8-Channel Data Selector
NTE4513B	BCD-to-Seven-Segment Latch Decoder Driver
NTE4514B	24-Lead DIP 4-Bit Latch/4-to-16 Line Decoder Output "High" on Select
NTE4515B	24-Lead DIP 4-Bit Latch/4-to-16 Line Decoder Output "Low" on Select
NTE4516B	16-Lead DIP Presettable Up/Down Binary Counter
NTE4517B	16-Lead DIP Dual 64-Stage Static Shift Register
NTE4518B	BCD 16-Lead DIP Dual Up Counter
NTE4518BT	BCD SOIC-16 Dual Up Counter
NTE4520B	Binary Dual Up Counter
NTE4520BT	Binary Dual Up Counter
NTE4521B	16-Lead DIP 24-Stage Frequency Divider

Integrated Circuits - CMOS (cont.)

Part #	Description
NTE4522B	BCD 16-Lead DIP Programmable Divide-by-"N" 4-Bit Counter
NTE4526B	Binary 16-Lead DIP Programmable Divide-by-"N" 4-Bit Counter
NTE4527B	16-Lead DIP BCD Rate Multiplier
NTE4528B	16-Lead DIP Dual Retriggerable/Resetable Monostable Multivibrator
NTE4528BT	SOIC-16 Dual Retriggerable/Resetable Monostable Multivibrator
NTE4529B	16-Lead DIP Dual 4-Channel Analog Data Selector
NTE4531B	16-Lead DIP 12-Bit Parity Tree
NTE4532B	16-Lead DIP 8-Bit Priority Encoder
NTE4536B	16-Lead DIP Programmable Timer
NTE4538B	16-Lead DIP Dual Precision Monostable Multivibrator
NTE4539B	16-Lead DIP Dual 4-Channel Data Selector/Multiplexer
NTE4541B	14-Lead DIP Programmable Timer
NTE4541BT	SOIC-14 Programmable Timer
NTE4543B	16-Lead DIP BCD-to-7-Segment Latch/Decoder/Driver for Liquid Crystals
NTE4547B	16-Lead DIP High Current BCD-to-7- Segment Decoder/Driver
NTE4551B	16-Lead DIP Quad 2-Input Analog Multiplexer/Demultiplexer
NTE4553B	16-Lead DIP 3-Digit BCD Counter
NTE4555B	16-Lead DIP Dual Binary to 1-of-4 Decoder/Demultiplexer Output "High" on Select. Output "High" on Select
NTE4556B	16-Lead DIP Dual Binary to 1-of-4 Decoder/Demultiplexer Output "Low" on Select. Output "Low" on Select
NTE4558B	16-Lead DIP BCD-to-7 Segment Decoder
NTE4566B	16-Lead DIP Industrial Time Base Generator
NTE4569B	16-Lead DIP Programmable Divide-by-"N" Dual 4-Bit BCD/Binary Counter
NTE4583B	16-Lead DIP Dual Schmitt Trigger
NTE4584B	14-Lead DIP Hex Schmitt Trigger
NTE4585B	16-Lead DIP 4-Bit Magnitude Comparator
NTE4597B	16-Lead DIP 8-Bit Bus compatible Counter Latch
NTE4598B	18-Lead DIP 8-bit Bus Compatible Addressable Latch

Integrated Circuits - Display Drivers

Part #	Description
NTE75188	14-Lead DIP DTL Quad Line Driver RS232C
NTE75189	14-Lead DIP DTL Quad Line Receiver RS232C
NTE75450B	14-Lead DIP Dual Peripheral AND Driver
NTE75451B	8-Lead DIP Dual Peripheral Driver
NTE75452B	Dual Peripheral Driver
NTE75454B	Dual Peripheral Driver
NTE75491B	14-Lead DIP 4-Segment MOS to LED Anode Driver
NTE75492B	14-Lead DIP 6-Digit MOS to LED Cathode Driver
NTE75493	16-Lead DIP 4-Segment MOS to LED Anode Driver
NTE75494	16-Lead DIP 6-Digit MOS LED Cathode Driver

Microprocessor and Memory Circuits

Includes peripherals.

Part #	Description
NTE4164	NMOS 64K Dynamic RAM (DRAM) 150ns

Thermo Pads

Part #	Pad #
NTE4256	16-Lead DIP NMOS 256K Dynamic RAM (DRAM) 100ns



Semiconductors



Integrated Circuits - TTL

Transistor Transistor Logic

Part #	Description
NTE7400	14-Lead DIP Quad 2-Input Positive NAND Gate
NTE7401	14-Lead DIP Quad 2-Input Positive NAND Gate w/Open Collector Outputs
NTE7402	14-Lead DIP Quad 2-Input Positive NOR Gate
NTE7403	14-Lead DIP Quad 2-Input Positive NAND Gate w/ open Collector Outputs
NTE7404	14-Lead DIP Hex Inverter
NTE7405	14-Lead DIP Hex Inverter w/ Open Collector Outputs
NTE7406	14-Lead DIP Hex Inverter Buffer/Driver w/ Open Collector High Voltage Outputs
NTE7407	14-Lead DIP Hex Buffer/Driver w/ Open Collector High Voltage Outputs
NTE7408	Quad 2-Input Positive AND Gate
NTE7409	14-Lead DIP Quad 2-Input Positive AND Gate w/ Open Collector Outputs
NTE7410	14-Lead DIP Triple 3-Input Positive NAND Gate
NTE74107	14-Lead DIP Dual J-K Negative Edge Triggered Flip-Flop w/ Clear
NTE74109	16-Lead DIP Dual J-K Positive Edge Triggered Flip-Flop w/ Clear & Preset
NTE74110	14-Lead DIP AND Gated J-K Master/Slave Flip-Flop w/ Data Lockout
NTE74116	24-Lead DIP Dual 4-Bit Latch
NTE7412	14-Lead DIP Triple 3-Input Positive NAND Gate w/ Open Collector Outputs
NTE74120	16-Lead DIP Dual Pulse Synchronizer/Driver
NTE74121	14-Lead DIP Monostable Multivibrator
NTE74122	14-Lead DIP Retriggerable Monostable Multivibrator w/ Clear
NTE74123	16-Lead DIP Dual Retriggerable Monostable Multivibrator w/ Clear
NTE74126	Quad Bus Buffer w/ 3-State Outputs
NTE74128	14-Lead DIP Quad 2-Input NOR 50ohm Line Driver
NTE7413	14-Lead DIP Dual 4-Input NAND Schmitt Trigger
NTE74132	14-Lead DIP Quad 2-Input Positive NAND Schmitt Trigger
NTE74136	14-Lead DIP Quad Exclusive OR Gate w/open Collector Outputs
NTE7414	14-Lead DIP Hex Schmitt Trigger Inverter
NTE74141	16-Lead DIP BCD-to-Decimal Decoder/Driver Driver Filled Cold Cathode Indicator Tubes Directly
NTE74145	16-Lead DIP BCD-to Decimal Decoer/Driver for Lamps Relays MOS
NTE74147	10-Line Decimal-to-4-Line BCD Priority Encoder
NTE74148	16-Lead DIP 8-Line-to-3-Line Octal Priority Encoder
NTE74150	24-Lead DIP 1-of-16 Data Selector/Multiplexer
NTE74151	16-Lead DIP 8-Channel Multiplexer
NTE74152	14-Lead DIP 1-of-8 Data Selector/Multiplexer
NTE74153	Dual 2-Line-to-4-Line Decoder/Demultiplexer Open Collector Outputs
NTE74154	24-Lead DIP 4-Line-to-16-Line Decoder/Demultiplexer
NTE74155	16-Lead DIP Dual 2-Line-to-4-Line Decoder/Demultiplexer Totem Pole Outputs
NTE74157	16-Lead DIP Quad 2-to-1-Line Data Selector/Multiplexer
NTE74158	Quad 2-to-1-Line Data Selector/Multiplexer
NTE7416	14-Lead DIP HexInverter Buffer/Driver w/ Open Collector High Voltage Outputs
NTE74160	16-Lead DIP synchronous 4- Bit Counter
NTE74161	Synchronous 4- Bit Counter
NTE74162	Synchronous 4- Bit Counter
NTE74163	Synchronous 4- Bit Counter

Integrated Circuits - TTL

(cont.)

Part #	Description
NTE74164	14-Lead DIP 8-bit Parallel-Out Serial Shift Register w/ Async Clear
NTE74165	16-Lead DIP 8-Bit Parallel-In/Serial-Out Shift Register
NTE74166	16-Lead DIP 8-Bit Parallel or Serial-In/Serial-Out Shift Register
NTE7417	14-Lead DIP Hex Buffer/Driver w/Open Collector High Voltage Outputs
NTE74170	16-Lead DIP 4-by-4 Register File w/open Collector Output
NTE74173	16-Lead Dip 4-Bit D-Type Flip-Flop w/ 3-State Outputs
NTE74174	16-Lead DIP Hex D-Type Flip-Flop w/ Serial Rail Outputs & Common Direct Clear
NTE74175	16-Lead DIP Quad D-Type Flip-Flop w/ Common Direct Clear & Complementary Outputs
NTE74176	14-Lead DIP Presettable Counter/Latch
NTE74177	Presettable Counter/Latch
NTE74179	16-Lead DIP 4-Bit Universal Shift Register w/Direct Clear
NTE74180	14-Lead DIP 9-Bit Odd/Even Parity Generator/Checker
NTE74182	16-Lead DIP Look-Ahead Carry Generator
NTE74191	Synchronous Up/Down Counter
NTE74192	16-Lead DIP Synchronous Up/Down Dual Clock Counter
NTE74193	Synchronous Up/Down Dual Clock Counter
NTE74196	14-Lead DIP Presettable Counter/Latch
NTE74197	Presettable Counter/Latch
NTE74199	24-Lead DIP 8-Bit Directional Universal Shift Register
NTE7420	14-Lead DIP Dual 4-Input NAND Gate
NTE7421	14-Lead DIP Dual 4-Input AND Gate
NTE7422	14-Lead DIP Dual 4-Input NAND Gate w/ Open collector Outputs
NTE74221	16-Lead DIP Dual Monostable Multivibrator
NTE7423	16-Lead DIP Expandable Dual 4-Input NOR Gate w/ Strobe
NTE74249	BCD-to-Seven-Segment Decoder/Driver
NTE7425	14-Lead DIP Dual 4-Input Positive NOR Gate w/Strobe
NTE74251	16-Lead DIP Data Selector/Multiplexer w/ True & Inverted 3-State Outputs
NTE7426	14-Lead DIP Quad 2-Input High Voltage Interface NAND Gate
NTE74265	16-Lead DIP Quad Complementary Output Elements
NTE74278	14-Lead DIP 4-Bit Cascadable Priority Register w/ Latched Data Inputs & Priority Output Gating
NTE74279	16-Lead DIP Quad Set-Reset Latch w/Diode - Clamped Inputs & Totem Pole Outputs
NTE7428	14-Lead DIP Quad 2-Input Positive NOR Buffer/Clock Driver w/Totem Pole Outputs
NTE74298	16-Lead DIP Quad 2-Input Multiplexer w/Storage
NTE7430	14-Lead DIP 8-Input Positive NAND Gate
NTE7432	14-Lead DIP Quad 2-Input OR Gate
NTE7433	14-Lead DIP Quad 2-Input NOR Buffer w/ Open Collector Outputs
NTE74365	16-Lead DIP 3-State Hex Bus/Buffer Driver
NTE74367	16-Lead DIP Hex Bus/Buffer Driver w/ 3-State Outputs Organized to Handle 4-Bit Data
NTE74368	Hex Bus/Buffer Driver w/ 3-State Outputs Organized to Handle 4-Bit Data
NTE7437	14-Lead DIP Quad 2-Input NAND Buffer
NTE74376	16-Lead DIP Quadruple J-K Flip-Flop
NTE7438	14-Lead DIP Quad 2-Input NAND Buffer w/ Open Collector Outputs
NTE7439	14-Lead Input Quad 2-Input NAND Buffer w/ Open Collector Outputs
NTE74390	16-Lead DIP Dual 4-Bit Decade Ripple Counter

Semiconductors



Integrated Circuits - TTL (cont.)

Part #	Description
NTE74393	14-Lead DIP Dual 4-Bit Binary Ripple Counter
NTE7440	14-Lead DIP Dual 4-Input NAND Buffer
NTE7441	16-Lead DIP 1-of-10 Decoder Driver for Cold Cathode Indicator Tubes
NTE7442	16-Lead DIP 4-Line-to-10-Line BCD-to-Decimal Decoder
NTE74426	14-Lead DIP Quad Gate w/3-State Outputs & Active High Enabling
NTE7443	16-Lead DIP 4-Line-to-10-Line Excess 3-to-Decimal Decoder
NTE7444	16-Lead DIP 4-Line-to-10-Line Excess 3-Gray-to-Decimal Decoder
NTE7445	16-Lead DIP BCD-to-Decimal Decoder/Driver
NTE7446	16-Lead DIP BCD-to-Seven-Segment Decoder/Driver w/ Active Low Open Collector Outputs
NTE7447	BCD-to-Seven Segment Decoder/Driver w/ Active Low Open Collector Outputs
NTE7448	16-Lead DIP BCD-To-Seven-Segment Decoder/Driver w/ Internal Pull-Up Outputs
NTE7450	14-Lead DIP Dual 2-Wide 2-Input AND/OR Invert Gate (One Gate Expandable)
NTE7451	14-Lead DIP Dual 2-Wide 2-Input AND/OR GATE
NTE7453	14-Lead DIP Expandable AND/OR Invert Gate
NTE7454	14-Lead DIP 4-Wide AND/OR Invert Gate
NTE7460	14-Lead DIP Dual 4-Input Expander
NTE7470	14-Lead DIP AND Gated J-K Positive Edge Triggered Flip-Flop w/Preset & Clear
NTE7472	14-Lead DIP AND Gated J-K Master/Slave Flip-Flop w/ Preset & Clear
NTE7473	14-Lead DIP Dual J-K Flip-Flop w/Clear
NTE7474	14-Lead DIP Dual D-Type Positive Edge Triggered Flip-Flop w/ Preset & Clear
NTE7475	16-Lead DIP 4-Bit Bistable Latch
NTE7476	16-Lead DIP Dual J-K Flip-Flop w/ Preset & Clear
NTE7480	14-Lead DIP Gated Full Adder w/ Complementary Inputs & Complementary Sum Outputs This configuration is nonstable that is it will not persist when preset and clear inputs to their inactive (HIGH) Level
NTE7482	14-Lead DIP 2-Bit Binary Full Adder
NTE7483	16-Lead DIP 4-Bit Binary Full Adder w/ Fast Carry
NTE7485	16-Lead DIP 4-Bit Magnitude Comparator
NTE7486	14-Lead DIP Quad 2-Input Exclusive OR Gate
NTE7489	16-Lead DIP 64-Bit Read/Write Memory
NTE7490	14-Lead DIP Decade Counter (Divide by 2 & 5)
NTE7491	14-Lead DIP 8-Bit Shift Register w/ Gated Serial Inputs & Serial Outputs
NTE7492	14-Lead DIP Divide-by-Twelve Counter
NTE7493A	14-Lead DIP 4-Bit Binary Counter (Divide by 2 & 8)
NTE7495	14-Lead DIP 4-Bit Parallel In/Parallel Out Shift Register
NTE7496	16-Lead DIP 5-Bit Shift Register w/ Async Preset
NTE7497	16-Lead DIP Synchronous 6-Bit Binary Rate Multiplier
NTE74C160	Synchronous 4- Bit Counter
NTE74C161	Synchronous 4- Bit Counter
NTE74C164	14-Lead DIP 8-bit Parallel-Out Serial Shift Register w/ Async Clear
NTE74C173	16-Lead Dip 4-Bit D-Type Flip-Flop w/ 3-State Outputs
NTE74C174	16-Lead DIP Hex D-Type Flip-Flop w/ Serial Rail Outputs & Common Direct Clear
NTE74C175	16-Lead DIP Quad D-Type Flip-Flop w/ Common Direct Clear & Complementary Outputs
NTE74C192	16-Lead DIP Synchronous Up/Down Dual Clock Counter
NTE74C193	Synchronous Up/Down Dual Clock Counter
NTE74C221	Dual Monostable Multivibrator

Integrated Circuits - TTL (cont.)

Part #	Description
NTE74C240	20-Lead DIP Octal Buffer/Line Driver/Receiver w/ 3-State Outputs
NTE74C244	Octal Buffer/Line Driver/Receiver w/ 3-State Outputs
NTE74C373	20-Lead DIP Octal-D Type Latch w/ 3-State Outputs & Common Output Control
NTE74C901	14-Lead DIP Hex Buffer (CMOS)
NTE74C902	Hex Buffer (CMOS)
NTE74C903	Hex Buffer (CMOS)
NTE74C904	Hex Buffer (CMOS)
NTE74C922	18-Lead DIP CMOS 16-key Keyboard Encoder w/ 3-State Output
NTE74C923	20-Lead DIP CMIS 20-Key Keyboard Encoder w/ 3-State Output
NTE74C925	16-Lead DIP 4-Digit Counter w/ Multiplexed Seven-Segment Output Driver
NTE74H00	Quad 2-Input Positive NAND Gate
NTE74H01	14-Lead DIP Quad 2-Input NAND Gate w/Open Collector Outputs
NTE74H04	Hex Inverter
NTE74H05	14-Lead DIP Hex Inverter w/ Open Collector Outputs
NTE74H101	14-Lead DIP AND/OR Gate J-K Negative Edge Triggered Flip-Flop w/ Preset
NTE74H102	14-Lead DIP AND Gated J-K Negative Edge Triggered Flip-Flop w/Clear & Preset
NTE74H103	14-Lead DIP Dual J-K Negative Edge Triggered Flip-Flop w/ Clears
NTE74H106	16-Lead DIP Dual J-K Negative Edge Triggered Flip-Flop w/ Preset & Clear
NTE74H108	14-Lead DIP Dual J-K Negative Edge Triggered Flip-Flop W/ Presets Common Clear & Common Clock
NTE74H183	14-Lead DIP Dual Carry/Save Full Adder
NTE74H21	Dual 4-Input AND Gate
NTE74H22	Dual 4-Input NAND Gate w/ Open collector Outputs
NTE74H30	8-Input Positive NAND Gate
NTE74H40	14-Lead DIP Dual 4-Input NAND Buffer
NTE74H50	Dual 2-Wide 2-Input And/OR Invert Gate (One Gate Expandable)
NTE74H51	Dual 2-Wide 2-Input AND/OR Gate
NTE74H52	14-Lead DIP Expandable 4-Wide AND/OR Gate
NTE74H53	14-Lead DIP Expandable AND/OR Gate
NTE74H54	14-Lead DIP 4-Wide AND/OR Invert Gate
NTE74H55	14-Lead DIP Expandable 2-Wide 4-Input AND/OR Invert Gate
NTE74H60	Dual 4-Input Expander
NTE74H61	14-Lead DIP Triple 3-Input Expander
NTE74H62	14-Lead DIP 4-Wide AND/OR Expander
NTE74H71	14-Lead DIP AND Gated J-K Master/Slave Flip-Flop w/ Preset & Clear
NTE74H72	AND Gated J-K Master/Slave Fip-Flop w/ Preset & Clear
NTE74H73	Dual J-K Flip-Flop w/ Clear
NTE74H74	Dual D-Type Positive Edge Triggered Flip-Flop w/Preset & Clear
NTE74H76	Dual J-K Flip-Flop w/ Preset & Clear
NTE74H78	14-Lead DIP Dual J-K Flip-Flop w/ Preset Common Clear & Common Clock
NTE74H87	14-Lead DIP 4-Bit True/Complement Zero/One Element
NTE74HC00	Quad 2-Input Positive NAND Gate
NTE74HC02	Quad 2-Input Positive NOR Gate
NTE74HC04	Hex Inverter
NTE74HC08	Quad 2-Input Positive AND Gate
NTE74HC10	Triple 3-Input Positive NAND Gate

Semiconductors



Integrated Circuits - TTL (cont.)

Part #	Description
NTE74HC109	Dual J-K Positive Edge Triggered Flip-Flop w/ Clear & Preset
NTE74HC11	Triple 3-Input Positive AND Gate
NTE74HC123	Dual Retriggerable Monostable Multivibrator w/ Clear
NTE74HC125	14-Lead DIP Quad Bus Buffer w/ 3-State Outputs
NTE74HC126	Quad Bus Buffer w/ 3-State Outputs
NTE74HC132	Quad 2-Input Positive NAND Schmitt Trigger
NTE74HC139	16-Lead DIP Dual 2-to-4 Line Decoder/Demultiplexer
NTE74HC151	8-Channel Multiplexer
NTE74HC163	Synchronous 4- Bit Counter
NTE74HC164	8-Bit Parallel-Out Serial Shift Register w/ Async Clear
NTE74HC165	8-Bit Parallel-In/Serial-Out Shift Register
NTE74HC173	4-Bit D-Type Flip-Flop w/ 3-State Outputs
NTE74HC174	Hex D-Type Flip-Flop w/ Serial Rail Outputs & Common Direct Clear
NTE74HC175	Quad D-Type Flip-Flop w/ Common Direct Clear & Complementary Outputs
NTE74HC240	Octal Buffer/Line Driver/Receiver w/ 3-State Outputs
NTE74HC244	Octal Buffer/Line Driver/Receiver w/ 3-State Outputs
NTE74HC257	16-Lead DIP Quad Data Selector/Multiplexer w/3-State Outputs
NTE74HC259	16-Lead DIP 8-Bit Addressable Latch
NTE74HC273	20-Lead DIP Octal D-Type Flip-Flop w/ Common Clock & Single Rail Outputs
NTE74HC299	20-Lead DIP 8-Bit Shift Register w/3-State Output
NTE74HC32	Quad 2-Input OR Gate
NTE74HC373	Octal-D Type Latch w/ 3-State Outputs & Common Output Control
NTE74HC377	20-Lead DIP Octal D-Type Flip-Flop w/Common Enable w/Clock & Single Rail Outputs
NTE74HC390	Dual 4-Bit Decade Ripple Counter
NTE74HC393	Dual 4-Bit Decade Ripple Counter
NTE74HC40105	16-Lead DIP 4-Bit x 16 Word FIFO Register
NTE74HC4020	16-Lead DIP 14-Stage Binary Counter (CMOS)
NTE74HC4040	18-Lead DIP 12-Stage Binary Counter (CMOS)
NTE74HC4053	16-Lead DIP Triple 2-Channel Analog Multiplex/Demultiplexer (CMOS)
NTE74HC4060	16-Lead DIP 14-Stage Binary Counter/Oscillator (CMOS)
NTE74HC4067	24-Lead DIP 16-Channel Multiplexer/Demultiplexer (CMOS)
NTE74HC573	20-Lead DIP TRI-STATE Octal D-Type Latch
NTE74HC574	20-Lead DIP TRI-STATE Octal D-Type Flip-Flop
NTE74HCT00	Quad 2-Input Positive NAND Gate
NTE74HCT04	Hex Inverter
NTE74HCT08	Quad 2-Input Positive AND Gate
NTE74HCT138	3-of-8 Decoder/Demultiplexer
NTE74HCT14	Hex Schmitt Trigger Inverter
NTE74HCT161	Synchronous 4- Bit Counter
NTE74HCT163	Synchronous 4- Bit Counter
NTE74HCT174	Hex D-Type Flip-Flop w/ Serial Rail Outputs & Common Direct Clear
NTE74HCT240	Octal Buffer/Line Driver/Receiver w/ 3-State Outputs
NTE74HCT244	Octal Buffer/Line Driver/Receiver w/ 3-State Outputs
NTE74HCT273	Octal D-Type Flip-Flop w/ common Clock & Single Rail Outputs
NTE74HCT32	Quad 2-Input OR Gate
NTE74HCT573	TRI-STATE Octal D-Type Latch
NTE74HCT574	TRI-STATE Octal D-Type Flip-Flop
NTE74L93	4-Bit Binary Counter (Divide by 2 & 8)
NTE74LS00	Quad 2-Input Positive NAND Gate
NTE74LS02	Quad 2-Input Positive NOR Gate

Integrated Circuits - TTL (cont.)

Part #	Description
NTE74LS03	Quad 2-Input Positive NAND Gate w/ Open Collector Outputs
NTE74LS04	Hex Inverter
NTE74LS05	Hex Inverter w/ Open Collector Outputs
NTE74LS06	Hex Inverter buffer/Driver w/ Open Collector High Voltage Outputs
NTE74LS08	Quad 2-Input Positive AND Gate
NTE74LS09	Quad 2-Input Positive AND Gate w/ Open Collector Outputs
NTE74LS10	Triple 3-Input Positive NAND Gate
NTE74LS109A	Dual J-K Positive Edge Triggered Flip-Flop w/ Clear & Preset
NTE74LS11	Triple 3-Input Positive AND Gate
NTE74LS112A	16-Lead DIP Dual J-K Negative Edge Triggered Flip-Flop W/ Preset & Clear
NTE74LS113	14-Lead DIP Dual J-K Negative Edge Triggered Flip-Flop w/ Preset
NTE74LS114	14-Lead DIP Dual J-K Negative Edge Triggered Flip-Flop w/Preset Common Clock & Clear
NTE74LS12	Triple 3-Input Positive NAND Gate w/ Open Collector Outputs
NTE74LS122	Retriggerable Monostable Multivibrator w/ Clear
NTE74LS123	Dual Retriggerable Monostable Multivibrator w/ Clear
NTE74LS124	Dual Voltage Controlled Oscillator
NTE74LS125A	Quad Bus Buffer w/ 3-State Outputs
NTE74LS126A	Quad Bus Buffer w/ 3-State Outputs
NTE74LS13	Dual 4-Input NAND Schmitt Trigger
NTE74LS132	Quad 2-Input Positive NAND Schmitt Trigger
NTE74LS133	16-Lead DIP 13-Input Positive NAND Gate
NTE74LS136	Quad Exclusive OR Gate w/ open Collector Outputs
NTE74LS138	3-of-8 Decoder/Demultiplexer
NTE74LS139	Dual 2-to-4 Line Decoer/Demultiplexer
NTE74LS14	Hex Schmitt Trigger Inverter
NTE74LS145	16-Lead DIP 10-Line Decimal-to-4-Line BCD Priority Encoder
NTE74LS147	Decimal-to-4-Line BCD Priority Encoder
NTE74LS148	8-Line-to-3-Line Octal Priority Encoder
NTE74LS15	14-Lead DIP Triple 3-Input AND Gate w/ Open Collector Outputs
NTE74LS151	8-Channel Multiplexer
NTE74LS153	16-Lead DIP Dual 4-Line-to-1-Line Data Selector/ Multiplexer
NTE74LS155	Dual 2-Line-to-4-Line Decoder/Demultiplexer Total Pole Outlets
NTE74LS156	Dual 2-Line-to-4-Line Decoder/Demultiplexer Open Collector Outputs
NTE74LS157	Quad 2-to-1-Line Data Selector/Multiplexer
NTE74LS160A	Synchronous 4- Bit Counter
NTE74LS161A	Synchronous 4- Bit Counter
NTE74LS162A	Synchronous 4- Bit Counter
NTE74LS163A	Synchronous 4- Bit Counter
NTE74LS164	8-Bit Parallel-Out Serial Shift Register w/ Async Clear
NTE74LS166	8-Bit Parallel or Serial-In/Serial-Out Shift Register
NTE74LS168A	16-Lead DIP Synchronous Presetable Up/Down Counter
NTE74LS169A	Synchronous Presetable Up/Down Counter
NTE74LS170	4-by-4 Register File w/open Collector Output
NTE74LS173A	4-Bit D-Type Flip-Flop w/ 3-State Outputs
NTE74LS174	Hex D-Type Flip-Flop w/ Serial Rail Outputs & Common Direct Clear
NTE74LS175	Quad D-Type Flip-Flop w/ Common Direct Clear & Complementary Outputs
NTE74LS190	16-Lead DIP Synchronous Up/Down Counter



Semiconductors



Integrated Circuits - TTL (cont.)

Part #	Description
NTE74LS191	Synchronous Up/Down Counter
NTE74LS192	Synchronous Up/Down Dual Clock Counter
NTE74LS193	Synchronous Up/Down Dual Clock Counter
NTE74LS194	16-Lead DIP 4-Bit Directional Universal Shift Register
NTE74LS194A	4-Bit Directional Universal Shift Register
NTE74LS195A	4-Bit Parallel Access Shift Register
NTE74LS196	Presetable Counter/Latch
NTE74LS197	Dual J-K Negative Edge Triggered Flip-Flop w/ Clear
NTE74LS20	Dual 4-Input NAND Gate
NTE74LS21	Dual 4-Input AND Gate
NTE74LS22	Dual 4-Input NAND Gate w/ Open collector Outputs
NTE74LS221	Dual Monostable Multivibrator
NTE74LS240	Octal Buffer/Line Driver/Receiver w/ 3-State Outputs
NTE74LS241	Octal Buffer/Line Driver/Receiver w/ 3-State Outputs
NTE74LS242	14-Lead DIP Quad Bus Transceiver w/3-State Outputs
NTE74LS243	Quad Bus Transceiver w/3-State Outputs
NTE74LS244	Octal Buffer/Line Driver/Receiver w/ 3-State Outputs
NTE74LS245	20-Lead DIP Octal Bus Transceiver w/ 3-State Non-Inverted Outputs
NTE74LS247	16-Lead DIP BCD-to-Seven Segment Decoder/Driver
NTE74LS248	BCD-to-Seven-Segment Decoder/Driver
NTE74LS251	Data Selector/Multiplexer w/ True & Inverted 3-State Outputs
NTE74LS253	16-Lead DIP Dual Data Selector/Multiplex w/3-State Outputs
NTE74LS257	Quad Data Selector/Multiplexer w/3-State Outputs
NTE74LS258	Quad Data Selector/Multiplexer w/3-State Outputs
NTE74LS259	8-Bit Addressable Latch
NTE74LS26	14-Lead DIP Triple 3-Input Positive NOR Gate
NTE74LS260	14-Lead DIP Dual 5-Input NOR Gate
NTE74LS266	14-Lead DIP Quad 2-Input Exclusive NOR Gate w/ Open Collector Outputs
NTE74LS27	Triple 3-Input Positive NOR Gate
NTE74LS273	Octal D-Type Flip-Flop w/ common Clock & Single Rail Outputs
NTE74LS28	Quad 2-Input Positive NOR Buffer/Clock Driver w/ Totem Pole Outputs
NTE74LS280	14-Lead DIP 9-Bit Odd/Even Parity Generator/Checker (N-Bit Cascadable)
NTE74LS283	16-Lead DIP 4-Bit Binary Full Adder
NTE74LS290	14-Lead DIP Decade Counter (Divide by 2 & 5)
NTE74LS293	14-Lead DIP 4-Bit Binary Counter (Divide by 2 & 8)
NTE74LS295	14-Lead DIP 4-Bit Bidirectional Shift Register
NTE74LS295A	4-Bit Bidirectional Shift Register
NTE74LS298	Quad 2-Input Multiplexer w/Storage
NTE74LS299	8-Bit Shift Register w/3-State Output
NTE74LS30	8-Input Positive NAND Gate
NTE74LS32	Quad 2-Input OR Gate
NTE74LS324	14-Lead DIP Voltage Controlled Oscillator
NTE74LS327	14-Lead DIP Dual Voltage Controlled Oscillator
NTE74LS33	Quad 2-Input NOR Buffer w/ Open Collector Outputs
NTE74LS348	16-Lead DIP 8-Line-to-3-Line Priority Encoder
NTE74LS352	16-Lead DIP Dual 4-Line-to-1-Line Data Selector/Multiplexer (Inverting Version of NTE74LS153)
NTE74LS353	16-Lead DIP Dual 4-Line-to-1-Line Data Selector/Multiplexer
NTE74LS363	20-Lead DIP Octal Transport Latch w/ 3 State Outputs
NTE74LS365A	3-State Hex Bus/Buffer Driver
NTE74LS367	Hex Bus/Buffer Driver w/ 3-State Outputs Organized to Handle 4-Bit Data

Integrated Circuits - TTL (cont.)

Part #	Description
NTE74LS368	Hex Bus/Buffer Driver w/ 3-State Outputs Organized to Handle 4-Bit Data
NTE74LS37	Quad 2-Input NAND Buffer
NTE74LS374	Octal-D Type Latch w/ 3-State Outputs & Common Output Control
NTE74LS377	Octal D-Type Flip-Flop w/Common Enable w/Clock & Single Rail Outputs
NTE74LS378	16-Lead DIP Hex D-Type Flip-Flop w/ Clock Enable
NTE74LS379	16-Lead DIP Octal D-Type Flip-Flop
NTE74LS38	Quad 2-Input NAND Buffer w/ Open Collector Outputs
NTE74LS386	14-Lead DIP Quad 2-Input Exclusive OR Gate
NTE74LS390	Dual 4-Bit Decade Ripple Counter
NTE74LS393	Dual 4-Bit Decade Ripple Counter
NTE74LS395A	16-Lead DIP 4-Bit Cascadable Shift Register w/ 3-State Outputs
NTE74LS396	16-Lead DIP Octal Storage Register w/ Parallel Access
NTE74LS398	20-Lead DIP Quad 2-Port Register
NTE74LS40	Dual 4-Input NAND Buffer
NTE74LS42	4-Line-to-10-Line BCD-to-Decimal Decoder
NTE74LS445	16-Lead DIP BCD-to-Decimal Decoder/Driver w/ Open Collector Outputs
NTE74LS47	BCD-to-Seven Segment Decoder/Driver w/ Active Low Open Collector Outputs
NTE74LS48	BCD-to-Seven-Segment Decoder/Driver w/ Internal Pull-Up Outputs
NTE74LS49	14-Lead DIP BCD-to-Seven-Segment Decoder/Driver w/ Open Collector Outputs
NTE74LS51	14-Lead DIP Dual 2-Wide 2-Input And/Or Gate
NTE74LS54	14-Lead DIP 4-Wide AND/OR Invert Gate
NTE74LS540	20-Lead DIP Octal Buffer/Line Driver w/3-State Outputs w/inverted outputs
NTE74LS541	Octal Buffer/Line Driver w/3-State Outputs w/non-inverted outputs
NTE74LS55	14-Lead DIP Expandable 2-Wide 4-Input AND/OR Invert Gate
NTE74LS624	14-Lead DIP Voltage Controlled Oscillator
NTE74LS625	16-Lead DIP Dual Voltage Controlled Oscillator
NTE74LS627	14-Lead DIP Dual Voltage Controlled Oscillator
NTE74LS63	14-Lead DIP Hex Current Sensing Interface Gate
NTE74LS640	20-Lead DIP Inverting Octal Bus Transceiver
NTE74LS641	20-Lead DIP Non-Inverting Octal Bus Transceiver
NTE74LS642	Inverting Octal Bus Transceiver
NTE74LS643	20-Lead DIP True & Inverting Octal Bus Transceiver w/ 3-State Outputs
NTE74LS645	Non-Inverting Octal Bus Transceiver
NTE74LS670	16-Lead DIP 4-by-4 Register File w/ Simultaneous Read/White 3-State Outputs & Expandable to 1024 Words
NTE74LS73	Dual J-K Flip-Flop w/ Clear
NTE74LS75	4-Bit Bistable Latch
NTE74LS76A	Dual J-K Flip-Flop w/ Preset & Clear
NTE74LS77	14-Lead DIP 4-Bit D-Type Latch
NTE74LS78	14-Lead DIP Dual J-K Flip-Flop w/ Preset Common Clear & Common Clock
NTE74LS85	4-Bit Magnitude Comparator
NTE74LS86	Quad 2-Input Exclusive OR Gate
NTE74LS90	Decade Counter (Divide by 2 & 5)
NTE74LS91	8-Bit Shift Register w/ Gated Serial Inputs & Serial Outputs
NTE74LS92	Divide-by-Twelve Counter
NTE74LS93	4-Bit Binary Counter (Divide by 2 & 8)
NTE74LS95B	14-Lead DIP 4-Bit Shift Register

Semiconductors



Integrated Circuits - TTL (cont.)

Part #	Description
NTE74S00	Quad 2-Input Positive NAND Gate
NTE74S02	Quad 2-Input Positive NOR Gate
NTE74S04	Hex Inverter
NTE74S05	Hex Inverter w/ Open Collector Outputs
NTE74S08	Quad 2-Input Positive AND Gate
NTE74S09	Quad 2-Input Positive AND Gate w/ Open Collector Outputs
NTE74S10	Triple 3-Input Positive NAND Gate
NTE74S11	Triple 3-Input Positive AND Gate
NTE74S112	Dual J-K Negative Edge Triggered Flip-Flop W/ Preset & Clear
NTE74S113	Dual J-K Negative Edge Triggered Flip-Flop W/ Preset
NTE74S114	Dual J-K Negative Edge Triggered Flip-Flop w/ Preset Common Clock & Clear
NTE74S15	Triple 3-Input AND Gate w/ Open Collector Outputs
NTE74S20	Dual 4-Input NAND Gate
NTE74S22	Dual 4-Input NAND Gate w/ Open collector Outputs
NTE74S30	8-Input Positive NAND Gate
NTE74S37	Quad 2-Input NAND Buffer
NTE74S38	Quad 2-Input NAND Buffer w/ Open Collector Outputs
NTE74S40	Dual 4-Input NAND Buffer
NTE74S51	Dual 2-Wide 2-Input AND/OR Gate
NTE74S64	14-Lead DIP 4-2-3-2 Input AND/OR Invert Gate w/ Totem Pole Outputs
NTE74S65	4-2-3-2 Input AND/OR Invert Gate w/ open collector outputs
NTE74S74	Dual D-Type Positive Edge Triggered Flip-Flop w/Preset & Clear
NTE74S85	4-Bit Magnitude Comparator
NTE74S86	Quad 2-Input Exclusive OR Gate

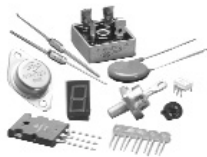
Transient Suppressors

Part #	Description
NTE4902	Zener Overvoltage Transient Suppressor, Vr =5.8V
NTE4903	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =5.8V
NTE4904	Zener Overvoltage Transient Suppressor, Vr =7.5V
NTE4905	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =7.5V
NTE4906	Zener Overvoltage Transient Suppressor, Vr =8.2V
NTE4907	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =8.2V
NTE4910	Zener Overvoltage Transient Suppressor, Vr =10V
NTE4911	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =10V
NTE4914	Zener Overvoltage Transient Suppressor, Vr =12V
NTE4915	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =12V
NTE4918	Zener Overvoltage Transient Suppressor, Vr =11.1V
NTE4919	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =11.1V
NTE4920	Zener Overvoltage Transient Suppressor, Vr =15V
NTE4921	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =15V
NTE4922	Zener Overvoltage Transient Suppressor, Vr =16V
NTE4923	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =16V
NTE4926	Zener Overvoltage Transient Suppressor, Vr =15.3V
NTE4927	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =15.3V
NTE4928	Zener Overvoltage Transient Suppressor, Vr =17.1V
NTE4929	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =17.1V
NTE4932	Zener Overvoltage Transient Suppressor, Vr =24V
NTE4933	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =24V
NTE4934	Zener Overvoltage Transient Suppressor, Vr =23.1V
NTE4935	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =23.1V
NTE4936	Zener Overvoltage Transient Suppressor, Vr =30V
NTE4937	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =30V
NTE4938	Zener Overvoltage Transient Suppressor, Vr =33V
NTE4939	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =33V
NTE4940	Zener Overvoltage Transient Suppressor, Vr =36V
NTE4941	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =36V
NTE4942	Zener Overvoltage Transient Suppressor, Vr =39V
NTE4943	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =39V
NTE4944	Zener Overvoltage Transient Suppressor, Vr =43V

Semiconductors



Transient Suppressors



Transient Suppressors (cont.)

Part #	Description
NTE4945	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =43V
NTE4946	Zener Overvoltage Transient Suppressor, Vr =40.2V
NTE4947	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =47V
NTE4950	Zener Overvoltage Transient Suppressor, Vr =43.6V
NTE4951	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =43.6V
NTE4952	Zener Overvoltage Transient Suppressor, Vr =56V
NTE4953	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =56V
NTE4954	Zener Overvoltage Transient Suppressor, Vr =62V
NTE4955	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =62V
NTE4958	Zener Overvoltage Transient Suppressor, Vr =58.1V
NTE4959	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =58.1V
NTE4960	Zener Overvoltage Transient Suppressor, Vr =75V
NTE4961	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =75V
NTE4962	Zener Overvoltage Transient Suppressor, Vr =82V
NTE4963	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =82V
NTE4964	Zener Overvoltage Transient Suppressor, Vr =91V
NTE4965	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =91V
NTE4966	Zener Overvoltage Transient Suppressor, Vr =100V
NTE4967	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =100V
NTE4970	Zener Overvoltage Transient Suppressor, Vr =120V
NTE4971	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =120V
NTE4972	Zener Overvoltage Transient Suppressor, Vr =130V
NTE4973	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =130V
NTE4974	Zener Overvoltage Transient Suppressor, Vr =150V
NTE4975	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =150V
NTE4976	Zener Overvoltage Transient Suppressor, Vr =160V
NTE4977	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =160V
NTE4978	Zener Overvoltage Transient Suppressor, Vr =170V
NTE4979	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =170V
NTE4980	Zener Overvoltage Transient Suppressor, Vr =180V
NTE4981	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =180V
NTE4982	Zener Overvoltage Transient Suppressor, Vr =220V
NTE4983	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =220V
NTE4984	Zener Overvoltage Transient Suppressor, Vr =250V
NTE4985	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =250V
NTE4988	Zener Overvoltage Transient Suppressor, Vr =171V
NTE4989	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =171V
NTE4990	Zener Overvoltage Transient Suppressor, Vr =300V

Part #	Description
NTE4991	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =300V
NTE4992	Zener Overvoltage Transient Suppressor, Vr =320V
NTE4993	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =320V
NTE4994	Zener Overvoltage Transient Suppressor, Vr =350V
NTE4995	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =350V
NTE4996	Zener Overvoltage Transient Suppressor, Vr =400V
NTE4997	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =400V
NTE4998	Zener Overvoltage Transient Suppressor, Vr =440V
NTE4999	Zener Overvoltage Transient Suppressor, Bi-Directional Vr =440V
NTE5000A	Zener Diode, 2.4V thru 3.3V, 1/2W, 5% Tol
NTE5001A	Zener Diode, 2.4V thru 3.3V, 1/2W, 5% Tol
NTE5002A	Zener Diode, 2.4V thru 3.3V, 1/2W, 5% Tol
NTE5003A	Zener Diode, 2.4V thru 3.3V, 1/2W, 5% Tol
NTE5004A	Zener Diode, 2.4V thru 3.3V, 1/2W, 5% Tol
NTE5005A	Zener Diode, 2.4V thru 3.3V, 1/2W, 5% Tol
NTE5005SM	Zener Diode, 3.3V, 300mW, 5% Tol, Surface Mount
NTE5007A	Zener Diode, 3.9V, 1/2W, 5% Tol
NTE5007SM	Zener Diode, 3.9V, 300mW, 5% Tol, Surface Mount
NTE5008A	Zener Diode, 4.3V, 1/2W, 5% Tol
NTE5008SM	Zener Diode, 4.3V, 300mW, 5% Tol, Surface Mount
NTE5009A	Zener Diode, 4.7V, 1/2W, 5% Tol
NTE5009SM	Zener Diode, 4.7V, 300mW, 5% Tol, Surface Mount
NTE5010A	Zener Diode, 5.1V, 1/2W, 5% Tol
NTE5010SM	Zener Diode, 5.1V, 300mW, 5% Tol, Surface Mount
NTE5010T1	Zener Diode, 5.1V, 1/2W, 1% Tol
NTE5011A	Zener Diode, 5.6V, 1/2W, 5% Tol
NTE5011SM	Zener Diode, 5.6V, 300mW, 5% Tol, Surface Mount
NTE5011T1	Zener Diode, 5.6V, 1/2W, 1% Tol
NTE5012A	Zener Diode, 6.0V, 1/2W, 5% Tol
NTE5013A	Zener Diode, 6.2V, 1/2W, 5% Tol
NTE5013SM	Zener Diode, 6.2V, 300mW, 5% Tol, Surface Mount
NTE5013T1	Zener Diode, 6.2V, 1/2W, 1% Tol
NTE5014A	Zener Diode, 6.8V, 1/2W, 5% Tol
NTE5014SM	Zener Diode, 6.8V, 300mW, 5% Tol, Surface Mount
NTE5015A	Zener Diode, 7.5V, 1/2W, 5% Tol

Semiconductors



Silicone Transistor Selector Guide

BVcbo - Maximum Breakdown Voltage Collector To Base (V) BVceo - Maximum Breakdown Voltage Collector To Emitter (V) Ic - Maximum Collector Current (Amps)
Pd - Maximum Collector Dissipation (Watts) hFE - Typical Forward Current Gain fT - Typical Freq (MHz). *Tc=25°C.

NPN	PNP	Application	BVCBO	BVCEO	IC	PD	hFE	fT
123AP	159	Amp, Gen Purpose	75/80	40/80	0.6/1	.0625	200/180	300/200 Min
46	-	Darlington, Gen Purp Amp, Preamp, Driver	100	100	0.5	0.625	10000 Min	200
289A	290A	Audio Pwr Amp	100	80	0.5	0.6	100 Min	120
194	-	Audio Pwr Amp	180	160	0.6	0.35	100	100 Min
287	288	High Vltg, Gen Purp Amp	300	300	0.5	0.625	40 Min	50 Min
192	193	Audio Pwr Amp, Gen Purp	70	70 (CES)	1	1*	150	120 Min
192A	193A	Audio Pwr Output	70	70 (CES)	0.5	0.6	120 Min	120
48	-	Darlington, High Current, Gen Purp Amp	60	50 (CES)	1	2.5*	25000 Min	100 Min
293	294	Audio Amp & Driver	60	50	1	1	120 Min	200
297	298	Audio Amp Driver	80	80	0.5	0.75	130 Min	120
31	32	Sound/Vert Output	160	160	1	0.9	100 Min	20 Min/15 Min
399	-	High Vltg Video Amp	300	300	0.1	0.9	100 Min	50 Min
108-1	-	Amp, RF/IF	30	15	0.05	0.625	20 Min	600 Min
75	-	High Pwr Amp, Switch	110	80	5	2	40 Min	20 Min
95	-	High Vltg, Switch Isolated Stud	250	250	3	40	90 Min	40
76	-	Amp, Broad Band, CATV	50	0	0.4	5	30 Min	1500
2338	-	Darlington Pwr Amp w/Internal Damper	60±10	60±10	1.5	10*	2000 Min	-
184	185	Amp, High Speed Switch	80	80	4	40*	7 Min	2 Min
253	254	Darlington Pwr Amp	80	80	4	40*	2000	-
295	-	RF Power Output/Driver	75	45	1	5*	60 Min	180 Min
157	39	High Vltg Amp, Gen Purp	325/300	300	0.5	20*	30 Min	10 Min
2327	-	High Vltg, High Speed Sw	1000 (CES)	450	0.5	20	50	20
2501	2502	HV for Video Output	300	300	0.1	1.5	100 Min	70
78	-	RF Pwr Output	75	75	4	12.5	35 Min	27
152	153	Amp, Gen Purp	90	90	4	40*	40 Min	8
236	-	Final RF Pwr Amp	60	25	6	20*	50	-
2332	-	Darlington w/Internal Damper & Zener Diode	60±10	60±10	2	20	4000	-
2334	-	Darlington Driver w/Internal Damper & Zener Diode	60±10	60±10	5	40	4000	20
235	-	Final RF Pwr Amp	65	65 (CER)	3 Pulse	12	80	300
241	242	Amp Gen Purp	80	80	4	60*	20 Min	25 Min
377	378	Pwr Amp, Pwr Driver, Switch	80	80	10	50	60 Min	50
196	197	Amp Gen Pur	90	80 (CER)	7	50*	20 Min	4
56	-	High Gain Switch	100	80	3	30*	500 Min	15
261	262	Darlington Pwr Amp	100	100	5	65	1000 Min	-
263	264	Darlington Pwr Amp	100	100	10	65	1000 Min	-
331	332	Audio Amp, Switch	100	100	15	90	40 Min	3 Min
2343	2344	Darlington Audio Amp, Dr	120	120	12	80*	1000 Min	-
291	292	Amp, Gen Purp	130	120	4	40	70	4 Min/5 Min
54	55	High Freq Audio Driver	150	150	8	50	100/120	30 Min
375	398	Vert Deflection Amp	200	150	2	25*	100 Min/60 Min	8/5
376	-	TV Pwr Supply Driver	300	300	0.2	15	40 Min	70
2315	-	Fast Switch Pwr Darlington	400	200	8	60	125	-
198	-	High Vltg Audio Output	500	500 (CES)	1	40*	80	10 Min
51	-	High Vltg, High Speed Sw	700 (CEV)	400	4	75*	8 Min	4 Min
379	-	High Vltg Switch	700	400	12	100	12	4 Min

Semiconductors



Silicone Transistor Selector Guide

BV_{cb0} - Maximum Breakdown Voltage Collector To Base (V) BV_{ceo} - Maximum Breakdown Voltage Collector To Emitter (V) I_c - Maximum Collector Current (Amps)
 P_d - Maximum Collector Dissipation (Watts) hFE - Typical Forward Current Gain fT - Typical Freq (MHz). *T_c=25°C.

NPN	PNP	Application	BVCBO	BVCEO	IC	PD	hFE	fT
95	-	High Vltg, Switch Isolated Stud	250	250	3	40	90 Min	40
78	-	RF Pwr Output	75	75	4	12.5	35 Min	27
2312	-	HV High Speed Switch	700 (CEV)	400 (SUS)	8	80	60 Max	4 Min
2325	-	High Voltage Switch	900	800	3	50	8 Min	15
2313	-	High Speed Switch	1000 (CES)	450	2	40	50	20
2333	-	High Vltg, High Speed Sw	1000 (CES)	450	6	100*	14 Min	14
2336	-	Darlington Switch w/Internal Damper & Zener Diode	60±10	60±10	8	45	2000 Min	-
2337	-	High Vltg, High Speed Sw	900	500	7	2/45*	15 Min	20
2339	-	High Vltg, High Speed Sw	1100	800	3	30	20 Min	15
216	-	High Speed Switch	80	50	1	1.2	60 Min	-
128P	129P	General Purp Amp	100	80	1	0.85	100 Min	50 Min
24	25	Gen Purp Amp, Switch	100	80	1	2*	50 Min/40 Min	150/125
227	-	HV Amp Video Output	300	300	0.01	2*	40 Min	50 Min
255	-	Horiz Dr. Amp	325	300	0.5	2*	110	60
2340	-	Darlington Sw w/Internal Damper Diode	60±10	60±10	8	45	2000 Min	-
2351	2352	Darlington Pwr Amp, Sw	100	80	4	1	1000 Min	-
2504	-	High Gain Audio Amp	30	25	2	1.2	1500	260
182	183	High Speed Amp, Switch	70	60	10	90	20 Min	2
267	-	Darlington Pwr Amp Switch	30	30	0.5	6.25	90000 Min	-
265	-	Darlington Pwr Amp Switch	50	50	0.5	6.25	10000 Min	-
266	-	Darlington Pwr Amp Switch	50	50	0.5	6.25	40000 Min	-
300	307	Audio Pwr Amp	50	40	1.5	7	90 Min	65
186	187	Audio Driver, Output	70 (CES)	60	3	12.5*	100 Min	50
299	-	RF Pwr Amp Driver	75	35	1	4*	70	-
210	211	Gen Purp Output Driver	90	75	1	6.25*	120 Min	200/150 Min
171	-	Audio, Video Amp	300	300	0.1	6.25*	30 Min	50 Min
79	-	RF Pwr Output	36	18	2	15	5 Min	-
186A	187A	Med Audio Amp	40/50	50/40	3	10	120	150
228A	-	HV Amp Video Output	450	350	0.5	2/10*	25 Min	45 Min
272	-	Darlington Pwr Amp Switch	50	40	2	10*	2500 Min	-
322	-	RF Pwr Output	65	65 (CES)	0.5	10	10 Min	100
190	-	High Vltg Amp	180	180	1	10	40 Min	100
270	271	Darlington Pwr Amp Switch	100	100	10	125	1000 Min	-
390	391	Pwr Amp, Switch	100	100	10	80	40 Min	3
392	393	Pwr Amp Switch	100	100	25	125*	25 Min	3
2305	2306	High Pwr Audio Amp	160	160	16	125	35	1 Min
394	-	Pwr AMp, High Speed Sw	500	400	3	100	30 Min	2.5
2317	-	High Vltg. Fast Switch, Power	500 (CES)	450	15	125*	300 Min	-
256	-	Darlington w/Damper Diode	600	400	28	150	30 Min	-
2310	-	High Vltg	1000	450	8	125*	10	-
2311	-	High Vltg/Speed Sw	1000	450	15	150*	10	-
2300	-	High Vltg, Horiz Output	1500	700	8	125	6	-
2301	-	High Vltg Horiz Output	1500	750	5	100	5	4
2318	-	HV Sw w/Internal Damper Diode	1500 (CES)	700	8	125	5	0.5
16002	-	RF Power, Dr	65	40	3	23*	5 min	400
16003	-	RF Power, Dr	65	40	1.5	11.6*	10 min	500
72	-	High Current, Fast Switch	100 (CES)	80	10	115	70 Min	30 Min
73	-	High Vltg Switch	220	200	10	85	15 Min	40
71	-	High Current, Fast Switch	150	90	20	200	20 Min	20
70	-	Pwr Amp, High Vltg, Switch	180	150	50	250	30 Min	-
274	275	Darlington Pwr Amp Switch	80	80	4	50	3000	-
124	-	High Vltg, Gen Purpose	325	300	1	20*	40 min	10 min
384	-	High Vltg Pwr Amp/Switch	375	350	7	45	28	1 Min



Semiconductors



Silicone Transistor Selector Guide (cont.)

NPN	PNP	Application	BVCBO	BVCEO	IC	PD	hFE	fT
175	38	Pwr Amp, Gen Purpose	500/400	300 (CER)/350	3/2	40/35	60/50	15/20
369	-	Vert Deflection, Switch	800	400	3 Peak	40	30 Min	7
319	-	VHF Amp w/AGC	20	20	0.05	0.26*	80	300 Min
316	-	High Gain, Low Noise UHF Amp	30	15	0.05	0.2	25 Min	1400
161	-	VHF-UHF Amp, Mixer/OSC	45	45 (CES)	0.05	0.2	60	800
81	-	Amp, Dual VHF, Switch	60	30	0.5	1.8*/each 2 total	25 min	250
10	-	UHF Low noise Amp	25	12	0.07	0.4	40 Min	4.5GHz
23	-	Ultra High Freq Amp	30	14	0.05	0.25	80	2GHz
107	-	UHF OSC	30	15	0.05	0.2	75	1000
108	-	RF-IF Amp	30	15	0.05	0.625	20 Min	600 Min
233	-	Video IF OSC	30	30	0.1	0.625	45	300 min
69	-	UHF/VHF Amplifier	35	25	0.05	1*	60	1100
289	290	Audio Amp, Switch	35	30	0.8	0.6	120 min	100/120
11	12	High Current Am	40/27	20/18	5	0.75	230 min/180 min	150/120
319P	-	VHF Amp with AGC Control	20	20	0.05	0.625	80	300 min
172A	-	Darlington Pre-Amp	40	40	0.3	0.4	7000 min	60 min
229	-	VHF OSC, Mixer	30	30	0.05	0.425	30 min	500 min
47	-	High Gain, Low Noise Amp	45	45	0.2	0.625	1150	160
199	234	Amp, Gen Purpose	70/120	50/120	0.1	0.36/0.3	400 min/350 min	90 min/100
85	-	Amp, Gen Purp Switch	50	30	0.5	0.625	100 min	100 min
20	21	AF PO, Dr, Series Pass	40	32	2	1	120 Min	100
16	17	Gen Purp Sm Sig Amp, Low Noise	50	40	0.1	0.3	270 Min	180/140
22	-	AF PO, Dr, Gen Purp Amp	100	80	1	0.9	120 Min	100
302	-	CB, Driver Switch	100	50	1.5 Peak	7.9*	199 Min	70
306	-	CB, Driver, Switch	100	50	1.5 Peak	7.9*	199 Min	70
15	-	VHF Amp, Mixer, OSC, UHF OSC	30	19	0.05	0.3	39 Min	1100
315	-	Medium Pwr Audio Amp	100	50	1	0.75	199 Min	-
382	383	Audio Freq Driver	120	100	1	0.9	200	140
42	43	Dual, Differential Amp, High Gain Low Noise, Common Emitter	50	50	0.1	0.2/Unit, 0.4 Total	400 Min	100 Min
44	45	Dual, High Gain, Low Noise, Bias Amp, Common Base	100	100	0.1	0.2/Unit, 0.4 Total	400 Min	100 Min
2402	2403	Low Noise, UHF/VHF Amp	20	15	0.025	0.2	50	5GHz
2404	2405	Darlington	40	30	0.3	0.35	4000 Min	220
2414	2415	Digital w/2 Built-in Bias 10k Resistors	50	50	0.1	0.2	50 Min	250
2416	2417	Digital w/2 Built-in Bias 22k Resistors	50	50	0.1	0.2	50 Min	250
2418	2419	Digital w/2 Built-in Bias 47k Resistors	50	50	0.1	0.2	50 Min	250
2406	2407	General Purpose Amp	75/60	40/60	0.6	0.35	100 Min	300 Min/200 Min
2408	2409	Low Noise, Driver, Output	80	65	0.1	0.2	125 Min/220 Min	300/150
2410	2411	HV Amp/Dr	160	140/150	0.6/0.5	0.3/0.35	80 Min/60 Min	100 Min
2412	2413	General Purpose HV Amp	300	300 (CER)	0.05	0.31	50 Min	60 Min
2345	2346	Darlington Power Amp	120	120	6	60	750 Min	-
2426	2427	Darlington Sw	90	80 (CER)	0.5	1	2000 Min	-
2428	2429	General Purpose Amp, Sw	90	80	1	1	100 Min	100 Min
2430	2431	HV Amp/Sw	400/350	350/300	1	1	30 Min	15 Min
29	30	High Current Switch	80	80	50	300	25	2
243	244	Darlington Power Amp	80	80	8	150	2500	-
245	246	Darlington Power Amp	80	80	10	150	4000	-
247	248	Darlington Power Amp	100	100	12	150*	750 Min	-
249	250	Darlington Power Amp	100	100	16	150	4000	-
251	252	Darlington Power Amp	100	100	20	160	2500	-
130	219	Power Amp, Gen Purpose	100	70 (CER)	15	115	20 Min	2.5 Min
181	180	High Power Audio Amp	100	100 (CER)	30	200	25 Min	2 Min
2349	2350	High Current Darlington	120	120	50	300	2000 Min	-



Semiconductors



Silicone Transistor Selector Guide (cont.)

NPN	PNP	Application	BVCBO	BVCEO	IC	PD	hFE	fT
60	61	High Power Audio Amp	140	140	20	250	150 Max	2 Min
280	281	Audio Power Amp	140	140	12	100*	40 Min	5/6
328	-	Power Amp, Switch	150	130 (CER)	15	140	12 Min	60 Min
284	285	Audio Amp Output	180	180	16	150	70	6
327	-	Power Amp, Switch	180	150	25	200	30 Min	40 Min
387	-	Power Amp, Switch	180	150	50	250	80	30 Min
87	88	High Power AF, Switch	250 (CEX)	250	10	200*	20 Min	4 Min
94	-	High Voltage Switch	300	300	5	100	40	2.5 Min
388	68	Power Amp, Gen Purpose	400	250	16	250*	5 Min	4 Min
162	-	TV Vert Deflection	400	400 (CEX)	10	125*	15 min	2.5 min
97	-	HV Darlington Pwr Amp, Fast Sw	500	400	10	150	40 min	-
385	-	Audio Power Amp, Switch	850 (CEX)	400	15	175*	8 min	-
99	-	HV Darlington Pwr Amp, Fast Sw	600	400	50	250	25 Min	-
98	-	HV Darlington Pwr Amp, Fast Sw	700 (CEV)	500	20	175*	40 Min	-
163A	-	TV Horiz Deflection	1500 (CEX)	700	5	12.5*	2.25 min	4
52	-	High Vltg, High Speed Sw	750	450	5	125	17	-
386	-	Audio Power Amp, Switch	800	500	20	175	20	-
283	-	Horiz Output, Switch	800	325	10	100	10 Min	6
53	-	High Vltg, High Speed, Sw	850 (CEV)	400	15	175*	6 Min	6 Min
2319	-	High Vltg, High Speed, Sw	850 (CES)	450	15 Cont.	175	5 Min	-
89	-	Horiz Output w/Internal Damper Diode	1500	600	6	50*	12	3
164	-	TV Vertical Output	1500	700 (CER)	1	50	30 min	3
389	-	Horizontal Output	1500	1500 (CEX)	4	100	10 Min	4 Min
165	-	TV Horizontal Output	1500 (CES)	1400 (CES)	6	50	8 Min	3
238	-	TV Horizontal Output	1500	1500 (CEX)	8	100	8	-
62	-	Very High Vltg Horiz Output	2500	900	3	50	7	-
2330	-	High Gain Amp, w/Internal Zener Diode	55 +15 - 10	55 +15 -10	4	80	1000	-
2335	-	Darlington w/Internal Zener Diode for Line Operated TV	60±15	60±15	5	80	2000 Min	-
2304	2314	High Current, Speed Switch	60	50	15	90	100 Min/7 Min	20
214	-	Darlington Driver	70	60	10	60*	5000	20
215	-	Darlington Driver	110	100	8	60*	4000	20
36	37	Audio Power Amp	160	140	12	100	100	15
2307	-	High Gain, Power Amp	200	180	5	80	500 Min	-
2308	-	High Voltage/Current Switch	500	400	12	100*	15 Min	20
2309	-	High Voltage/Speed Switch	900	800	6	100*	10 Min	15
2348	-	High Voltage/Speed Switch	1100	800	12	150*	10 Min	15
2302	-	High Voltage Output w/Internal Damper Diode	1500	800	5	120*	8 Min	3
2354	-	High Vltg, Horiz Output for High Definition CRT	1500	800	10	150*	8 Min	-
2353	-	Color TV Horiz Deflection w/Damper Diode	1500	800	10	70*	5 Min	-
2324	-	High Voltage Switch	1500	800	8	70*	8 Min	-
2331	-	TV Horiz Deflection w/Damper Diode	1500	800	6	60*	8 Min	-
16007	-	Med Power Gen Purp	100	100 (CEV)	3	25	35 Min	1.25
123A	159M	General Purp Amp	75/60	40/60	0.8/0.6	0.4	200/100 min	300/200 min
278	-	RF Amp, Broad Band	40	20	0.4	3.5	40 Min	1400
346	-	RF Driver, Predriver	40	20	0.4	1	10 min	500 min
77	-	Broad Band, CATV	50	30	0.4	3.5	30 min	1500
311	-	Driver, VHF/UHF OSC	55	30	0.4	5*	200	800 Min
329	-	RF Power Amp	-	30	1.5 Peak	5	-	-
195A	-	RF Pwr Amp, Driver	70	70 (CER)	1.5	8	30 Min	150
123	-	Amp, Gen Purpose	75	40	0.8	0.4	200	300 min
16005	16004	High Current Gen Purpose	100	75	2	10	30 Min	-
128	129	Amp, Gen Purpose	140/80	80	1	1.25	90 min	100 min
2347	-	Med Power Gen Purp	150	80	5	7*	40 min	50 min



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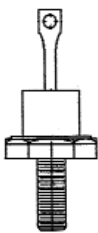

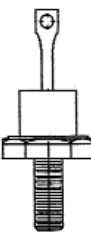

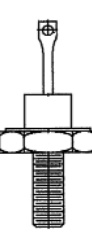
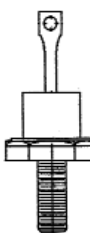
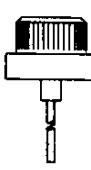
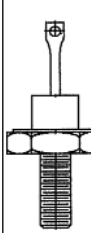
Silicone Transistor Selector Guide (cont.)

NPN	PNP	Application	BVCBO	BVCEO	IC	PD	hFE	fT
324	323	Amp, Gen Purpose	120	100	1.5	0.8	90/80	20 Min
154	-	High Vltg Video Output	300	300	0.2	1	100	80
396	397	Pwr Amp, High Voltage	450/350	350/300	1	5*/10*	40 Min/30 Min	15 Min
224	-	Final RF Pwr Output	60	60 (CEV)	2	10	60	200
225	NPN	High Speed Sw Linear Amp	450	350	1	10	40 Min	15
237	-	Final RF Pwr Out	80	40	3 Pulse	10	50	250
74	-	Amp, Gen Purpose, Switch	100	100	7	60	60 Min	30
96	-	Switching Power Transistor	100	100	7	60	60 Min	30 Min
2320	2320	Quad Gen Purp Sw Amp	60	30	0.5	0.65/Unit 1.25 Total	100 Min	350
2321	-	Quad Gen Purpose	60	40	0.5	0.65/Unit 1.9 Total	100 Min	350
2323	-	Quad High Vltg Gen Purpose Amp	200	200	0.5	0.75/Unit 1.7 Total	80	80
58	59	High Pwr Audio Output	200	200	17	200	30 Min	20
92	93	Hi-Fi Pwr Amp, Audio Output	200	200	15	150	120	20
63	-	High Gain, Low Noise, Wide Band, Small Signal Amp	20	12	0.04	0.4	40	5GHz
64	-	UHF/Microwave Amp/Hi Speed Sw	25	15	0.03	0.375	80	4.5GHz
313	-	VHF Mixer & UHF/RF Amp, High Gain Low Noise	30	30	0.02	0.15	60	530
2363	2364	High Current Gen Purp Amp	60	50	2	1	200 Min	150
344	-	RF Power Output	35	17	7	50	50	-
65	-	High Vltg, Low Noise for CATV, MATV	20	15	0.025	0.18	70	6GHz
26	-	Low Noise Audio Amp	120	120	0.1	0.2	350 Min	100
2355	2356	Digital w/2 Built-in Bias 10k Resistors	50	50	0.1	0.3	50 Min	250
2357	2358	Digital w/2 Built-in Bias 22k Resistors	50	50	0.1	0.3	50 Min	250
2359	2360	Digital w/2 Built-in Bias 47k Resistors	50	50	0.1	0.3	50 Min	250
2367	2368	Digital w/2 Built-in Bias 4.7k Resistors	50	50	0.1	0.3/0.2	30 Min	250/200
2369	NPN	Digital w/2 Built-in Bias 4.7k/47k Resistors	50	50	0.1	0.3/0.2	80 Min	250/200
2361	2362	High Speed Switch	60	50	0.5	0.3	200 Min	300/200
13	-	Low Volt Output Amp	25	20	0.5	0.6	400 Min	200
16006	-	AF Amp	20	20	0.7	1	1000 Min	-
16001	-	Video IF Amp	45	35	0.05	0.6	50	500

Semiconductors



Industrial Rectifiers

P _{RV} Volts	Maximum Average Rectified Forward Current I _F in Amperes										
	3A		6A		12A	12.7A	15A	16A	20A	25A	40A
50	5800	5830	5850	-	5870	-	5940	5892	5912	-	5980
50	-	5831*	5851*	-	5871*	-	5941*	5893*	5913*	-	5981*
100	5801	5832	5852	5812	5872	-	5942	5894	5914	-	5982
100	-	5833*	5853*	-	5873*	-	5943*	5895*	5915*	-	5983*
200	5802	5834	5854	-	5874	-	5944	5896	5916	-	5986
200	-	5835*	5855*	-	5875*	-	5945*	5897*	5917*	-	5987*
300	5803	5836	5856	-	5876	-	5946	5898	5918	-	5988
300	-	5837*	5857*	-	5877*	-	5947*	5899*	5919*	-	5989*
400	5804	5838	5858	5814	5878	-	5948	5900	5920	5962	5990
400	-	5839*	5859*	-	5879*	-	5949*	5901*	5921*	5963*	5991*
500	5805	5840	5860	-	5880	-	5950	5902	5922	-	5992
500	-	5841*	5861*	-	5881*	-	5951*	5903*	5923*	-	5993*
600	5806	5842	5862	5815	5882	6013	5952	5904	5924	-	5994
600	-	5843*	5863*	-	5883*	-	5953*	5905*	5925*	-	5995*
800	5808	5846	5866	-	5886	-	-	5908	5928	5966	5998
800	-	5847*	5867*	-	5887*	-	-	5909*	5929*	5967*	5999*
1000	5809	5848	5868	5817	5890	-	-	5910	5932	-	6002
1000	-	5849*	5869*	-	5891*	-	-	5911*	5933*	-	6003*
IFSM	200A	40A	150A	400A	250A	300A	250A	300A	400A	300A	500A
V _F @ I _F	1.2V max 0.9V Typ	1.1V Max 0.9V Typ	1.1V Max 0.9V Typ	0.9V Max 0.8V Typ	1.2V Max 1V Typ	1.6V Max 1V Typ	1.5V Max 1.1V Typ	1.2V Max 0.9V Typ	1.5V Max 1.1V Typ	1.7V Max 1V Typ	1.2V Max 1V Typ
T _C @ I _F (°C)	+105 (T _L)	+150	+150	+60	+150	-	+150	+150	+150	+100	+150
Mtg Torque in ●lb (m●N)	-	20 (2.22)	20 (2.22)	-	20 (2.22)	-	30 (3.33)	20 (2.22)	20 (2.22)	-	30 (3.33)
Thread Size	-	10-32 NF-2A	10-32 NF-2A	-	10-32 NF-2A	-	1/4-28 UNF-2A	10-32 NF-2A	10-32 NF-2A	-	1/4-28 UNF-2A
Package Type											
Case Style	DO27	DO4	Axial Lead	DO4	TO220	DO5	DO4	Press Fit	DO5		

Note: Cathode to case is standard polarity.
* Indicates anode to case polarity.



Semiconductors



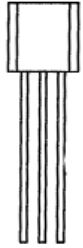
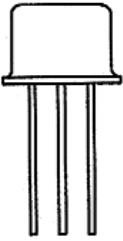
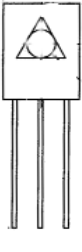
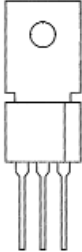
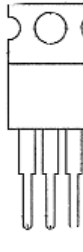
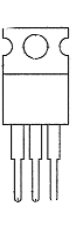
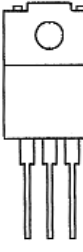

Single Phase Bridge Rectifiers

PRV Volts	I _F Averaged Rectified Forward Current Maximum Average Rectified Current @ Half - Wave Resistive Load 60Hz										
	1A	1.5A	2A	4A	4A	6A	8A	25A	40A	80A	100A
100	-	-	NTE166	-	-	-	NTE5312	-	-	-	-
200	-	-	NTE167	NTE5309	NTE5318	NTE5329	NTE5313	NTE5322	NTE5340	-	-
400	-	NTE5304	NTE168	-	-	-	NTE5314	NTE5324	-	-	-
600	NTE5332	NTE5305	NTE169	NTE5310	NTE5319	NTE5330	NTE5315	NTE5326	NTE5342	NTE5346	NTE5348
800	-	NTE5306	-	-	-	-	NTE5316	NTE5327	-	-	-
1000	NTE5334	NTE5307	NTE170	NTE5311	NTE5320	NTE5331	NTE5317	NTE5328	NTE5344	-	-
IFSM (AMP)	25	50	60	150	200	200	200	400	300	1500	1500
V _F @ I _F	1.2V @ 1A	1V @ 1A	1.1V @ 1A	1V @ 3A	1V @ 3A	1V @ 3A	1.1V @ 4A	1.1V @ 12.5A	1.2V @ 20A	1.2V @ 80A	1.3V @ 100A
Max T _A @ I _F (°C)	+40	+30	+55	+50	+50	+50	+55	+55	+55	+125	+125
Package Type											

Semiconductors



Triacs

V _{RRM} Dc or Pk Volts	I _T RMS Maximum Forward Current								
	0.8A	2.5A		4A		8A		10A	
25	-	-	-	NTE5600	-	-	-	-	-
50	-	-	-	NTE5601	-	-	-	-	NTE5661
100	-	NTE5640	NTE5650	NTE5602	-	-	-	-	-
200	NTE5655	NTE5641	NTE5651	NTE5603	-	-	-	-	-
300	-	-	-	NTE5604	-	-	-	-	-
400	NTE5656	NTE5642	NTE5652	NTE5605	NTE5629	NTE5608	NTE5638	-	-
500	-	-	-	NTE5606	-	-	-	-	-
600	NTE5657	NTE5643	NTE5653	NTE5607	-	NTE5609	NTE5638-06	-	-
800	-	-	-	-	-	NTE5610	NTE5638-08	NTE5620	-
I _{GT} (mA) *	5 Max	25 Max	3 Max	30 Max	3 Max	10 Max	10 Max	50/75 Max	30/140 Max
V _{GT} (V)	2.2 Max	2.2 Max	2.2 Max	2.5 Max	2 Max	2.5 Max	2.2 Max	2 Max	2 Max
V _{FDN} (V)	1.9 Max	1.8 Max	2.2Max	2 Max	1.6 Max	1.5 Max	1.6 Max	2 Max	1.8 Max
I _{surge} (A)	8 Max	25 Max	25 Max	30 Max	40 Max	80 Max	80 Max	100 Max	100 Max
I _{hold} (mA)	20 Max	35 Max	5 Max	30 Max	5 Max	15 Max	25 Max	50 Max	30 Max
Firing Quads	ALL	ALL	ALL	I, III	ALL	ALL	ALL	ALL	ALL
Package Type									
Package	TO92	TO5	TO126	TO202	TO220	TO220 Isolated	TO220 Full Pack	TO64**	

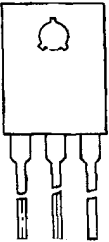
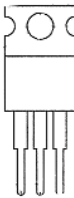
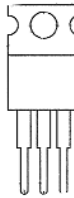

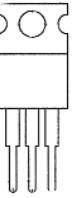
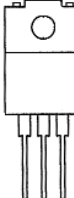

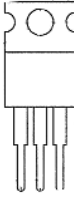
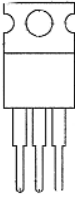
* IGT (max) is the worst case current required to guarantee turn on of the device.

** Mounting Torque, in. lb (mN):
TO48-30 (3.33); TO64-20 (2.22)

Semiconductors



Triacs (cont.)

V_{RRM} Dc or Pk Volts	I_T RMS Maximum Forward Current									
	10A				15A		20A	25A		
25	NTE5611	NTE5621	-	-	-	-	-	NTE5680	-	-
50	NTE5612	-	NTE5631	-	-	-	-	NTE5681	-	-
100	NTE5613	NTE5623	NTE5632	-	-	-	-	NTE5682	-	-
200	-	-	NTE5633	-	NTE5673	NTE56004	-	NTE5683	NTE56019	NTE56015
300	NTE5615	-	NTE5634	-	-	-	-	NTE5684	-	-
400	-	-	NTE5635	-	NTE5675	NTE56006	-	NTE5685	NTE56020	NTE56016
500	-	-	NTE5636	-	NTE5676	-	-	NTE5686	-	-
600	-	-	NTE5637	NTE5645	NTE5677	NTE56008	-	NTE5687	-	NTE56017
800	-	-	-	-	-	NTE56010	NTE5671	-	-	NTE56018
I_{GT} (mA)	50/75 Max	50 Max	50 Max	50/80 Max	50/80 Max	40/75 Max	35/70 Max	75/100 Max	80 Max	50/100 Max
V_{GT} (V)	2.5 Max	2 Max	2.5 Max	2.5 Max	2.5 Max	2.5 Max	1.5 Max	2.5 Max	2.5 Max	2.5 Max
V_{FOM} (V)	1.8 Max	1.8 Max	1.65 Max	2.2 Max	2.2 Max	1.6 Max	1.6 Max	1.8 Max	1.8 Max	1.8 Max
I_{SURGE} (A)	100 Max	100 Max	100 Max	100 Max	150 Max	150 Max	140 Max	250 Max	250 Max	180 Max
I_{HOLD} (mA)	50 Max	50 Max	50 Max	50 Max	60 Max	40 Max	30 Max	80 Max	100 Max	50 Max
Firing Quads	ALL	I, II	I, II, III	ALL	ALL	ALL	ALL	ALL	I, II, III	ALL
Package Type										
Package	TO127	TO220	TO220 Isolated	TO48** 1/4-28 UNF-2A	TO220	TO220 Full Pack	TO48** 1/4-28 UNF-2A	TO220 Isolated	TO220	

* I_{GT} (max) is the worst case current required to guarantee turn on of the device.

** Mounting Torque, in. lb (mN):
TO48-30 (3.33); TO64-20 (2.22)

Semiconductors



Silicon Controlled Rectifiers

Dc or Pk Volts V_{DRM}	I_T RMS Maximum Forward Current (All Conducting Angles)												
	0.8A Sensitive Gate	3A Sensitive Gate	4A Sensitive Gate		5A		7A	8A Sensitive Gate	8A		10A		
25											NTE5480		
30	NTE5400		NTE5411	NTE5452									
50				NTE5453	NTE5470					NTE5442	NTE5481		NTE5461
60	NTE5401		NTE5412										
100	NTE5402		NTE5413	NTE5454	NTE5471						NTE5482		NTE5462
150	NTE5403												
200	NTE5404	NTE5408	NTE5414	NTE5455	NTE5472	NTE5511	NTE5427				NTE5483		NTE5463
250													
300				NTE5456	NTE5473						NTE5484		
400	NTE5405	NTE5409	NTE5415	NTE5457	NTE5474	NTE5512	NTE5428	NTE5437			NTE5485		NTE5465
500					NTE5475						NTE5486		
600	NTE5406	NTE5410	NTE5416	NTE5458	NTE5476	NTE5413	NTE5429	NTE5438	NTE5448	NTE5487			NTE5466
700													
800												NTE5440	NTE5468
1200													
$I_{GT} \text{ MAX}^*$	200MA#	1mA#	200 UA#	200 UA#	10mA	15mA	25mA	200 UA#	30mA	30mA	15mA	15mA	
$V_{GT} \text{ MAX (V)}$	0.8	1.0	1.0	1.5	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
$I_{HOLD} \text{ MAX (ma)}$	5	10	5	3	25	20	50	10	40	30	20	20	
$V_F \text{ (ON) (V)}$	1.7	1.2	2.0	2.2	2.0	2.8	2.6	1.95	1.5	2.0	1.75	2.0	
Isurge (A)	20	40	25	20	100	60	100	100	80	100			
V GFM (V)	8	6	6	6	6	10	-	6	10	10			
V GRM (V)	8	6	6	6	6	5	-	6	10	10			
Mounting Torque in •lb (m•N)	-	-	-	-	20 (2.22)	-	-	-	-	20 (2.22)			
Thread Size	-	-	-	-	10-32 UNF-2A	-	-	-	-	10-32 UNF-2A			
Package Type													
Case Style	TO92	TO5	TO126	TO202	TO64	TO66	TO5	TO220	TO127	TO64	TO220 Full Pack	TO220	

Connect a 1K ohm resistor between the gate and cathode.

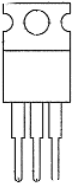
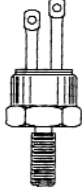

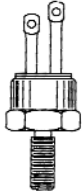
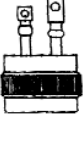
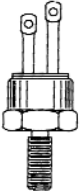
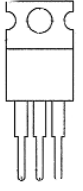
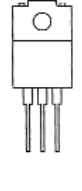
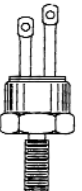

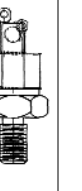
* $I_{GT} \text{ (max)}$ is the maximum gate current required to switch a thyristor to the on state.



Semiconductors



Silicon Controlled Rectifiers (cont.)

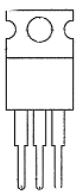


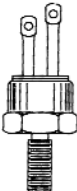
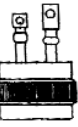
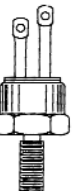

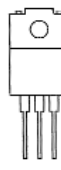
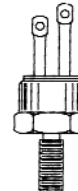

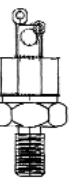
Dc or Pk Volts+ V _{DRM}	I _T RMS Maximum Forward Current (All Conducting Angles)											
	10A	10A Sensitive Gate	10A	12.5A	16A	20A	25A			35A		35A
25	-	-	-	-	NTE5500	-	NTE5520	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	NTE5501	-	NTE5521	NTE5550	-	NTE5541	-	-
100	-	-	NTE5491	-	NTE5502	-	NTE5522	-	-	NTE5542	-	-
150	-	-	-	-	NTE5503	-	NTE5523	-	-	-	-	-
200	NTE5417	-	NTE5492	-	NTE5504	NTE5514	NTE5524	NTE5552	-	NTE5543	NTE5517	NTE5-562
250	-	-	-	-	NTE5505	-	NTE5525	-	-	-	-	-
300	-	-	-	-	NTE5506	-	NTE5526	-	-	NTE5544	-	-
400	NTE5418	NTE5426	NTE5494	NTE314	NTE5507	NTE5515	NTE5527	NTE5554	-	NTE5545	NTE5518	NTE5-564
I _{GT} MAX*	15mA	200uA	15mA	40mA	30mA	15mA	40mA	30mA	40mA	30mA	30mA	30mA
V _{GT} MAX	1.5	0.8	2	2	1.5	2	3	1.5	1.5	2	2	2
I _{HOLD} MAX	30	3	20	50	40	20	50	40	40	50	50	50
V _{F(ON)}	1.6	1.6	2.5	1.8	1.6	2.4	2	1.6	1.8	1.6	1.6	1.6
I _{SURGE} (A)	100	100	100	200	150	200	150	300	300	300	300	300
V _{GFM} (V)	-	-	10	-	10	10	10	-	-	10	10	10
GRM(V)	-	-	10	-	5	5	5	-	-	10	10	10
Mtg Torque	-	-	30(3.33)	-	30(3.33)	-	30(3.33)	-	-	30(3.33)	-	30(3.3-3)
Thread Size	-	-	1/4-28 UNF-2A	-	1/4-28 UNF-2A	-	1/4-28 UNF-2A	-	-	1/4-28 UNF-2A	-	1/4-28 UNF-2-A
Package Type												
Case Style	TO220 Isolated	TO48	TO3	TO48	1/2" Press Fit	TO48	TO220	TO220 Full Pack	TO48	1/2" Press Fit	TO48 Isol Stud	

* I_{GT} (max) is the maximum gate current required to switch a thyristor to the on state.

Semiconductors



Silicon Controlled Rectifiers (cont.)

Dc or Pk Volts+ V _{DRM}	I _T RMS Maximum Forward Current (All Conducting Angles)											
	10A	10A Sensitive Gate	10A	12.5A	16A	20A	25A			35A		35A
500	-	-	-	-	NTE5508	-	NTE5528	-	-	NTE5546	-	-
600	NTE5419		NTE5496	-	NTE5509	NTE5516	NTE5529	NTE5556	-	NTE5547	NTE5-519	NTE5566
700	-	-	-	-	-	-	NTE5530	-	-	-	-	-
800	-	-	-	-	-	-	NTE5531	NTE5558	NTE5460	NTE5548	-	-
1200	-	-	-	-	-	-	-	-	-	-	-	-
I _{GT} MAX*	15mA	200A	15mA	40mA	30mA	15mA	40mA	30mA	40mA	30mA	30mA	30mA
V _{GT} MAX	1.5	0.8	2	2	1.5	2	3	1.5	1.5	2	2	2
I _{HOLD} MAX	30	3	20	50	40	20	50	40	40	50	50	50
V _{F(ON)}	1.6	1.6	2.5	1.8	1.6	2.4	.2	1.6	1.8	1.6	1.6	1.6
I _{SURGE} (A)	100	100	100	200	150	200	150	300	300	300	300	300
V _{GFM} (V)	-	-	10	-	10	10	10	-	-	10	10	10
GRM(V)	-	-	10	-	5	5	5	-	-	10	10	10
Mtg Torque	-	-	30(3.33)	-	30 (3.33)	-	30 (3.33)	-	-	30 (3.33)	-	30 (3.33)
Thread Size	-	-	1/4-28 UNF-2A	-	1/4-28 UNF-28	-	1/4-28 UNF-28	-	-	1/4-28 UNF-28	-	1/4-28 UNF-28
Package Type												
Case Style	TO220 Isolated	TO48	TO3	TO48	1/2" Press Fit	TO48	TO220	TO220 Full Pack	TO48	1/2" Press Fit	TO48 Isol Stud	

* I_{GT} (max) is the maximum gate current required to switch a thyristor to the on state.

Semiconductors



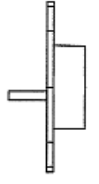
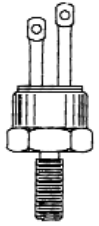




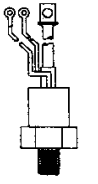

Silicon Controlled Rectifiers (For Phase Control Applications)

DC or Pk Volts V_{DRM}	I_T RMS Maximum Forward Current Amps (All Conducting Angles)											
	40A		50A	55A	80A	125A		275A	470A	550A	850A	1800A
200	-	-	-	-	NTE5567	NTE5570	NTE5575	NTE5580	NTE5590	-	NTE5594	-
250	-	-	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	NTE5539	-	-	-	-	-	-	-	-
500	-	-	-	-	-	-	-	-	-	-	-	-
600	NTE5534A	-	-	-	NTE5568	NTE5572	NTE5577	NTE5582	NTE5591	NTE5587	NTE5595	NTE5598
700	-	-	-	-	-	-	-	-	-	-	-	-
800	-	NTE5536	NTE5538	NTE5540	-	-	-	-	-	-	-	-
1200	-	-	-	-	NTE5569	NTE5574	NTE5579	NTE5584	NTE5592	NTE5589	NTE5596	NTE5599
I_{GT} Max	80mA	50mA	80mA	40mA	100mA	120mA	150mA	150mA	150mA	150mA	150mA	200mA
V_{GT} Max	1.5	1.5	3	1.5	2.5	2.5	3	3	3	3	3	3
I_{HOLD} Max	150	60	150	60	200	150	-	-	-	-	-	-
V_F (ON)	2.0	1.6	2	1.8	1.6	1.6	2.2	1.5	1.55	1.4	1.4	1.35
I_{SURGE} (A)	525	400	525	650	1255	1900	1600	5500	5500	10,000	10,000	27,000
V_{GFM} (V)	-	-	15	-	20	20	-	4	5	5	5	5
V_{GRM} (V)	-	-	5	-	5	10	5	5	5	5	5	5
Mtg Torque	-	-	-	-	30 (3.33)	130 (14.46)	130 (14.46)	360 (40.06)	1400 Lbs (6.2 KN)	360 (40.06)	2400 LBS (10.7KN)	5500 Lbs (24.5KN)
Thread Size	-	-	-	-	1/4-28 UNF-2A	1/2-20 UNF-2A	1/2-20 UNF-2A	3/4-16 UNF-2A	-	3/4-16 UNF-2A	-	-
Package Type												
Case Style	TO3 Isolated Flange	TO220	TO218 Isolated	TO218	TO65	TO94	TO83	TO93	Hockey Puck 1.65" Dia	TO118	Hockey Puck 2.3" Dia	Hockey Puck 2.9" Dia

Semiconductors



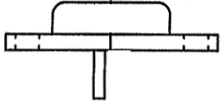
Silicon Controlled Rectifiers (For High Speed Switching)

DC or Pk Volts V_{DRM}	I_T RMS Maximum Forward Current Amps (All Conducting Angles)							
	5A	35A	125A	275A	400A	475A	700A	
600	NTE 5351	NTE 5360	NTE 5368	NTE 5371	NTE 5374	NTE 5380	NTE 5377	NTE 5386
1200			NTE 5369	NTE 5372	NTE 5375	NTE 5381	NTE 5378	NTE 5387
I_{GT} Max	50mA	180mA	150mA	150mA	200mA	150mA	150mA	150mA
V_{GT} Max (V)	2	3	3	3	3	3	3	3
I_{HOLD} Max (mA)	100	150	-	-	600	-	-	-
$V_{F(on)}$ Max (V)	2.06	2.05	3.2	3.3	1.85	1.85	1.45	1.45
I_{SURGE} (A)	90	180	1400	1400	4700	4500	8000	8000
Repetitive di/dt Amps/us Max	-	-	150	150	500	300	400	400
Non-Repetitive di/dt Amps/ns Max	500	400	800	800	1000	800	500	800
dv/dt Volts/ μ s Max	400 (Typ)	200	200	200	200	300	300	300
Turn-Off tq/ μ s Max	2.9 (Typ)	10	10	10	10	15	25	25
Mounting Torque in.lb (m.N)	-	30 (3.33)	130 (14.46)	130 (14.46)	360 (40.06)	1400 lbs (6.2 kN)	360 (40.06)	2400 lbs (10.7 kN)
Thread Size	-	1/4-28 UNF-2A	1/2-20 UNF-2A	1/2-20 UNF-2A	3/4-16 UNF-2A	-	3/4-16 UNF-2A	-
Package Type								
Case Style	TO66	TO48	TO83	TO94	TO93	Hockey Puck 1.65" Dia	TO118	Hockey Puck 2.3" Dia

Semiconductors



Silicon Controlled Rectifiers (For High Speed Switching Applications)



TO3

NTE Type Number	Description and Application	Repetitive Peak Forward Off-State Voltage (V)	RMS On-State Current (Amps)	Peak Forward Surge Current (Amps)	Maximum Ratings				Typical Reverse Recovery Time (μs)	Package Style/Diag. Number
		V _{DRM}	I _{T(RMS)}	I _{TSM}	Gate Trigger Voltage (Volts)	Gate Trigger Current (mA)	Turn-Off Time (μs)	Holding Current (mA)		
					V _{GT}	I _{GT}	t _{off}	I _{HOLD}	t _{rr}	
314	Power Regulating Switch	400	12.5	200	2	40	20 Typ	50	5	TO3

Metal Oxide Varistor

NTE Type Number	Case Diameter	Maximum Ratings (T _A =25°C)				Characteristics		
		Continuous		Transient		Nom. Varistor Volt. @1 mA DC Test Current (V)	Max. Clamping Volt., V _C @Test Current (8/20μs)(V)	Transient Pwr. Dissipation (Watts)
		RMS Voltage (Volts)	DC Voltage (Volts)	Energy (10/1000μs) (Joules)	Peak Current (8/20μs) (Amps)			
		V _m (AC)	V _m (DC)	W _{TM}	I _{TM}	V _{NOM}	V _{CL}	P _D
1V010	8.5mm	10	12	0.8	250	18	45	0.25
2V010	16mm	10	12	3.5	1000	18	45	0.60
1V014	8.5mm	14	18	1.2	250	22	55	0.25
2V014	16mm	14	18	4.0	1000	22	55	0.60
1V015	8.5mm	15	20	1.0	250	24	52	0.25
2V015	16mm	15	20	4.5	1000	24	48	0.60
1V017	8.5mm	17	22	1.3	250	27	60	0.25
2V017	16mm	17	22	5.0	1000	27	60	0.60
1V020	8.5mm	20	26	1.5	250	33	70	0.25
2V020	16mm	20	26	6.0	1000	33	70	0.60
1V025	8.5mm	25	31	1.7	250	39	80	0.25
2V025	16mm	25	31	7.0	1000	39	80	0.60
1V030	8.5mm	30	38	2.3	250	47	95	0.25

Semiconductors



Metal Oxide Varistor (cont.)

NTE Type Number	Case Diameter	Maximum Ratings (T _A =25°C)				Characteristics		
		Continuous		Transient		Nom. Varistor Volt.@1 mA DC Test Current (V)	Max. Clamping Volt. V _C @Test Current (8/20µs)(V)	Transient Pwr. Dissipation (Watts)
		RMS Voltage (Volts)	DC Voltage (Volts)	Energy (10/1000µs) (Joules)	Peak Current (8/20µs) (Amps)			
		V _m (AC)	V _m (DC)	W _{TM}	I _{TM}	V _{NOM}	V _{CL}	P _D
2V030	16mm	30	38	8.5	1000	47	95	0.60
1V035	8.5mm	35	45	2.7	250	56	110	0.25
2V035	16mm	35	45	10.0	1000	56	110	0.60
1V040	8.5mm	43	55	3.2	250	68	135	0.25
2V040	16mm	43	55	13.0	1000	68	135	0.60
1V050	8.5mm	52	6	4.0	250	82	150	0.25
2V050	16mm	52	66	14.0	1000	82	150	0.60
1V060	8.5mm	63	80	6.0	1200	100	175	0.25
2V060	16mm	63	80	18.0	4500	100	175	0.60
1V075	8.5mm	75	95	5.0	1200	120	205	0.25
2V075	16mm	75	95	21.0	4500	120	205	0.60
1V095	8.5mm	95	125	7.0	1200	150	250	0.25
2V095	16mm	95	125	29.0	4500	150	250	0.60
1V115	8.5mm	115	150	10.0	1200	171	295	0.25
2V115	16mm	115	150	35.0	4500	171	300	0.60
1V130	8.5mm	135	180	10.0	1200	216	355	0.25
524V13	23mm	135	180	72.0	6500	216	355	1.00
1V150	8.5mm	160	210	10.0	1200	240	410	0.25
2V150	16mm	160	210	40.0	4500	240	410	0.60
524V15	23mm	160	210	80.0	6500	240	410	1.00
1V175	8.5mm	170	225	12.0	1200	270	450	0.25
524V17	23mm	170	225	90.0	6500	270	450	1.00
1V250	8.5mm	240	320	20.0	1200	390	630	0.25
2V250	16mm	240	320	70.0	4500	390	630	0.60
524V25	23mm	240	320	129.0	6500	390	630	1.00
1V275	8.5mm	260	330	20.0	1200	430	685	0.25
2V275	16mm	260	330	72.0	4500	430	685	0.60
524V27	23mm	260	330	135.0	6500	430	685	1.00

Semiconductors



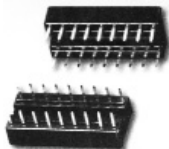
Heat Sink Compound

Part #	Description
NTE303	Thermal Compound, 1 Gram/Tube
NTE424	Non-Silicone Heat Sink Compound, 1 oz/Plunger Tube
NTE425	Thermal Interface Pad, Self-Adhesive, 1.65" x 1.65"
NTE434	Non-Corrosive Adhesive/Sealant, 2 oz/Squeeze Tube



IC Sockets (Stamp Pins)

Tin plated, stamped contacts. Pin spacing 0.1" (2.54mm). Two different row widths. Narrow: A= 7.62mm (0.3"). Wide: A= 15.20mm (0.6").



Multi Row Part #: SCS-38

Narrow (0.3") Part #'s: SCS-06, SCS-08, SCS-14, SCS-16, SCS-18, SCS-20, SCS-22, SCS-24, SCS-28, SCS-34

Wide (0.6") Part #'s: SCL-24, SCL-32, SCL-28, SCL-40

IC Extractor Part #: SCS-IC-XTR

IC Socket (Machined Pins)

Gold plated, 4 finger beryllium copper contacts. Tin plated outer sleeve. Pin spacing is 8-24 = 2.54mm x 7.62mm (0.1" x 0.3") and 24-40 = 2.54mm x 15.24mm (0.1" x 0.6").

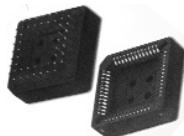


Regular Part #'s: SQ-06, SQ-08, SQ-14, SQ-16, SQ-18, SQ-20, SQ-22, SQ-24, SQ-24N, SQ-28, SQ-40

Wire Wrap Part #'s: SQA-06, SQA-08, SQA-14, SQA-16, SQA-18, SQA-20, SQA-24, SQA-28, SQA-40

Chip Carriers

Gold plated contacts and solder post. Plastic leaded chip carrier and surface mount chip carrier.



Surface Mount Part #'s: SMT-28 NT, SMT-32 NT, SMT-44 NT, SMT-52 NT, SMT-68 NT, SMT-84 NT

Thru Holes Part #'s: PLCC-28, PLCC-32, PLCC-44, PLCC-52, PLCC-68, PLCC-84

Tin Plated Contacts Part #: PLCC-28T

Pin Sockets (Machined Pins)

Gold plated, 4 finger beryllium copper contacts. Tin plated outer sleeve. Pin spacing is 0.10" (2.54mm). Notched sides for cleaner breaking.



Part #'s: HQ-1X16, HQ-1X20, HQ-1X30, HQ-1X40, HQ-2X30

Wire Wrap Pins Part #: HQA-1X40



Silicon



Part #	Description
INT-SIGEL	Silicon Gel - 2 Grams, for Heat Dissipation
INT-SLVGEL	High Performance Thermal Compound



P.C. Board Mount Dip IC Sockets

Features: 8, 14, 16, 18, 20, 24, 28 and 40 contact available. Tin plated contact. Industry standard spacing. Specification: Contact resistance: 30m ohm max. at DC 100mA. Insulator resistance: 1000m ohm min. at DC 500V; Current rating: 1 amp dielectric withstanding. Voltage: AC 500V for one minute; Operating temperature: -55°C to 105°C. Contact: Phosphor bronze. Housing: PBT and 30% glass fiber (UL-94V-0).



Part #	Position
70-4608	8
70-4614	14
70-4616	16
70-4618	18
70-4620	20
70-4624	24
70-4628	28
70-4640	40

Ultra-Chem Heatsink Compound

Contains silicone and is used to transfer heat away from transistors and IC's for them to run cooler.



Part #	Description
50-819	2 oz. tube
50-820	3g tube

Ultra-Chem Heatsink Compound Type II

Silicon FREE heat sink compound which will not migrate and meets MIL-C-47113 properties. It is used in applications where contamination is a problem such as wave soldering, and operates at a wider temperature range (-40° - 392°F). 4 oz. tube.



Part # 50-850