



ELECTRONICS, INC.  
 44 FARRAND STREET  
 BLOOMFIELD, NJ 07003  
 (973) 748-5089  
<http://www.nteinc.com>

## NTE178MP Silicon Diode, Matched Pair 225 Volts/400 Milliamperes

**Description:**

The NTE178MP is a matched pair of silicon diodes rated at 225 volts and 400 milliamps.

**Features:**

- High temperature soldering Guaranteed +350°C/10 seconds/.375", (9.5mm) lead length at 5 lbs., (2.3kg) tension
- Glass passivated junction

**Mechanical Data:**

Polarity: Color band denotes cathode

Mounting Position: Any

**Maximum Ratings and Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

Maximum Recurrent Peak Reverse Voltage	225V
Maximum RMS Voltage	156V
Maximum DC Blocking Voltage	225V
Minimum Avalanche Breakdown Voltage ( $T_A = +100^\circ\text{C}$ )	275V
Maximum Average Forward Rectified Current (.375", (9.5mm) Lead Length)	
$T_A = +25^\circ\text{C}$	400mA
$T_A = +150^\circ\text{C}$	150mA
Peak Forward Surge Current (8.3ms Single Half Sine-Wave Superimposed on Rated Load)	15A
Maximum Instantaneous Forward Voltage at 400mA	1.0V
Maximum DC Reverse Current at rated DC Blocking Voltage	
$T_A = +25^\circ\text{C}$	0.2µA
$T_A = +100^\circ\text{C}$	15µA
Typical Junction Capacitance (Note 1)	15pF
Operating Junction Temperature Range, $T_J$	-65° to +175°C
Storage Temperature Range, $T_{stg}$	-65° to +200°C

Note 1. Measured at 1.0MHz and applied reverse voltage of 4.0  $V_{DC}$

