



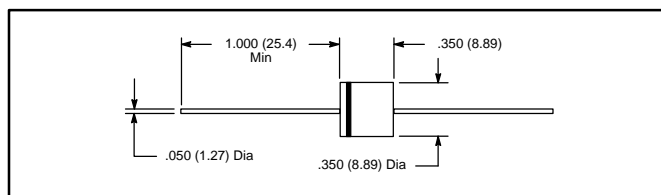
ELECTRONICS, INC.

44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748-5089

NTE5812 thru NTE5817 6 Amp Plastic Silicon Rectifier

Features:

- Diffused Junction
- High Surge Capability
- Completely Insulated Case
- Uniform Molded Body



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

Maximum Recurrent Peak Reverse Voltage

NTE5812	100V
NTE5814	400V
NTE5815	600V
NTE5817	1000V

Maximum RMS Voltage

NTE5812	70V
NTE5814	280V
NTE5815	420V
NTE5817	700V

Maximum DC Blocking Voltage

NTE5812	100V
NTE5814	400V
NTE5815	600V
NTE5817	1000V

Maximum Average Forward Rectified Current ($T_A = +60^\circ\text{C}$ PC Board Mounting) 6A

Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load) . . . 400A

Maximum Instantaneous Forward Voltage (NTE5812, NTE5814, NTE5815)

$I_F = 6A$	0.90V
$I_F = 100A$	1.25V

Maximum Instantaneous Forward Voltage (NTE5817)

$I_F = 6A$	0.95V
$I_F = 100A$	1.30V

Maximum DC Reverse Current at Rated DC Blocking Voltage

$T_J = +25^\circ\text{C}$	25 μA
$T_J = +100^\circ\text{C}$	1mA

Typical Thermal Resistance, Junction-to-Lead (.500 in. (12.7mm) lead length), R_{thJL} 10 $^\circ\text{C/W}$

Operating Junction Temperature Range, T_J -65° to $+175^\circ\text{C}$

Storage Temperature Range, T_{stg} -65° to $+175^\circ\text{C}$