



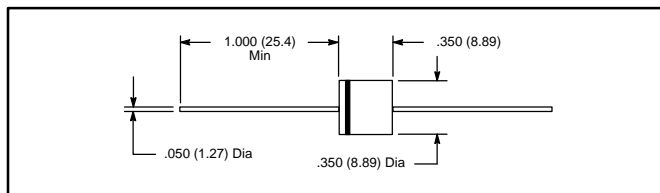
ELECTRONICS, INC.

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## 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 $\mu\text{A}$
$T_J = +100^\circ\text{C}$	1mA

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

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

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