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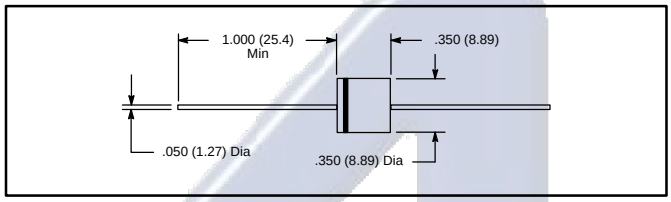
NTE5812 thru NTE5817
6 Amp Plastic Silicon Rectifier

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



Maximum Ratings and Electrical Characteristics: (T_A = +25°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°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°C 25µA
- T_J = +100°C 1mA

Typical Thermal Resistance, Junction–to–Lead (.500 in. (12.7mm) lead length), R_{thJL} . . . . 10°C/W

Operating Junction Temperature Range, T_J . . . . . –65° to +175°C

Storage Temperature Range, T_{stg} . . . . . –65° to +175°C

Electrónica S.A. de C.V.

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