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## NTE573, NTE573-1, NTE573-2 Schottky Barrier Rectifier DO-201AD Type Package

**Features:**

- Schottky Barrier Chip
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 150A Peak
- Low power Loss, High Efficiency
- Ideally Suited for Use in High Frequency SMPS, Inverters, and as Free Wheeling Diodes

**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%.)

Peak Repetitive Reverse Voltage, $V_{RRM}$	
NTE573 .....	60V
NTE573-1 .....	100V
NTE573-2 .....	200V
Working Peak Reverse Voltage, $V_{RWM}$	
NTE573 .....	60V
NTE573-1 .....	100V
NTE573-2 .....	200V
DC Blocking Voltage, $V_R$	
NTE573 .....	60V
NTE573-1 .....	100V
NTE573-2 .....	200V
RMS Reverse Voltage, $V_{R(RMS)}$	
NTE573 .....	42V
NTE573-1 .....	70V
NTE573-2 .....	140V
Average Forward Rectified Current (Note 1), $I_O$ .....	5A
Non-Repertitive Peak Forward Surge Current, $I_{FSM}$ (8.3ms Single half Sine-Wave Superimposed on Rated Load) .....	150A
Forward Voltage ( $I_F = 5A$ ), $V_{FM}$	
NTE573 .....	0.7V
NTE573-1 .....	0.85V
NTE573-2 .....	0.9V

Rev. 3-15



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

Peak Reverse Current (At rated DC Blocking Voltage),  $I_{RM}$

$T_J = +25^\circ\text{C}$

NTE573 .....	5mA
NTE573-1 .....	0.5mA
NTE573-2 .....	0.2mA

$T_J = +100^\circ\text{C}$

NTE573 .....	50mA
NTE573-1 .....	20mA
NTE573-2 .....	5mA

Typical Junction Capacitance (Note 2),  $C_J$

NTE573 .....	400pF
NTE573-1 .....	380pF
NTE573-2 .....	120pF

Thermal Resistance, Junction-to-Ambient (Note 3),  $R_{thJA}$  .....  $25^\circ\text{C/W}$

Thermal Resistance, Junction-to-Lead (Note 3),  $R_{thJL}$  .....  $8.0^\circ\text{C/W}$

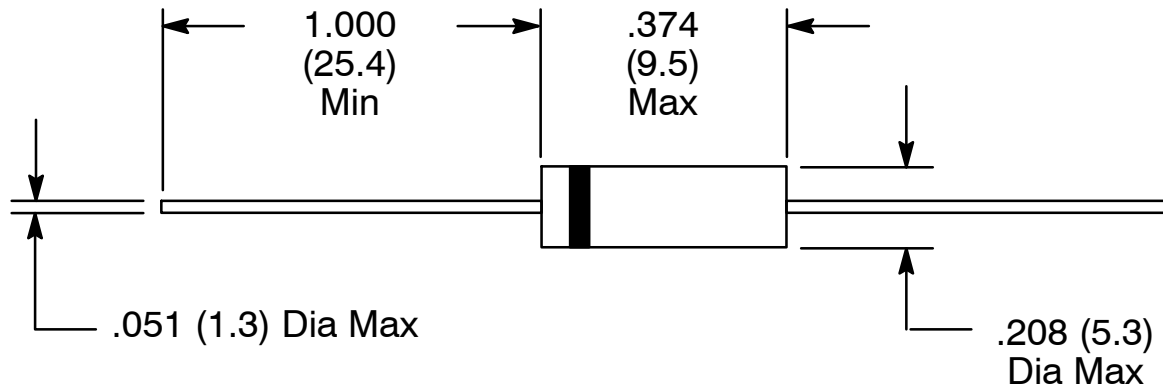
Operating Junction Temperature Range,  $T_J$  .....  $-65^\circ$  to  $+150^\circ\text{C}$

Storage Temperature Range,  $T_{stg}$  .....  $-65^\circ$  to  $+150^\circ\text{C}$

Note 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

Note 2. Measured at 1.0MHz and applied reverse voltage of 4.0VDC.

Note 3. Vertical PCB mounting with 12.7mm lead length on 63.5mm x 63.5mm copper pad.



Color Band Denotes Cathode

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