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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-Repetitive 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



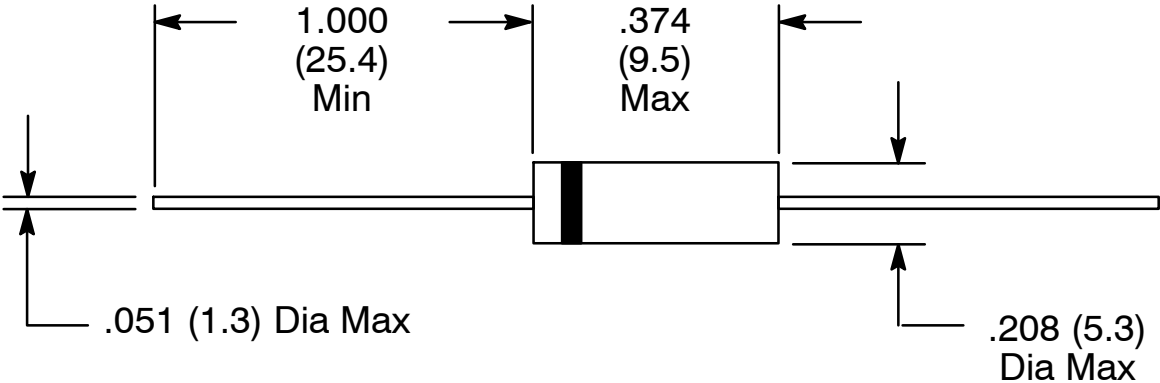
Maximum Ratings and Electrical Characteristics (Cont'd): ($T_A = +25^{\circ}\text{C}$ unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)
Peak Reverse Current (At rated DC Blocking Voltage), I_{RM}

$T_J = +25^{\circ}\text{C}$	
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°C/W
Thermal Resistance, Junction-to-Lead (Note 3), R_{thJL}	8.0°C/W
Operating Junction Temperature Range, T_J	-65° to $+150^{\circ}\text{C}$
Storage Temperature Range, T_{stg}	-65° 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