



## NTE5800 thru NTE5809 Axial Lead Standard Recovery Silicon Rectifiers, 3 Amp, DO27

**Description:**

The NTE5800 through NTE5809 silicon rectifiers are designed for use in power supplies and other applications having need of a device with the following features:

- High Current to Small Size
- High Surge Current Capability
- Low Forward Voltage Drop

**Absolute Maximum Ratings:** (Note 1)

Peak Repetitive Reverse Voltage,  $V_{RRM}$

Working Peak Reverse Voltage,  $V_{RWM}$

DC Blocking Voltage,  $V_R$

NTE5800 .....	50V
NTE5801 .....	100V
NTE5802 .....	200V
NTE5803 .....	300V
NTE5804 .....	400V
NTE5805 .....	500V
NTE5806 .....	600V
NTE5808 .....	800V
NTE5809 .....	1000V

Non-Repetitive Peak Reverse Voltage,  $V_{RSM}$

NTE5800 .....	100V
NTE5801 .....	200V
NTE5802 .....	400V
NTE5803 .....	425V
NTE5804 .....	525V
NTE5805 .....	625V
NTE5806 .....	800V
NTE5808 .....	1000V
NTE5809 .....	1200V

Average Rectified Forward Current,  $I_O$

(Single Phase Resistive Load, 1/2" Leads,  $T_L = +105^\circ\text{C}$ ) ..... 3A

Non-Repetitive Peak Surge Current,  $I_{FSM}$

(Surge Applied at Rated Load Conditions, One Cycle) ..... 200A

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

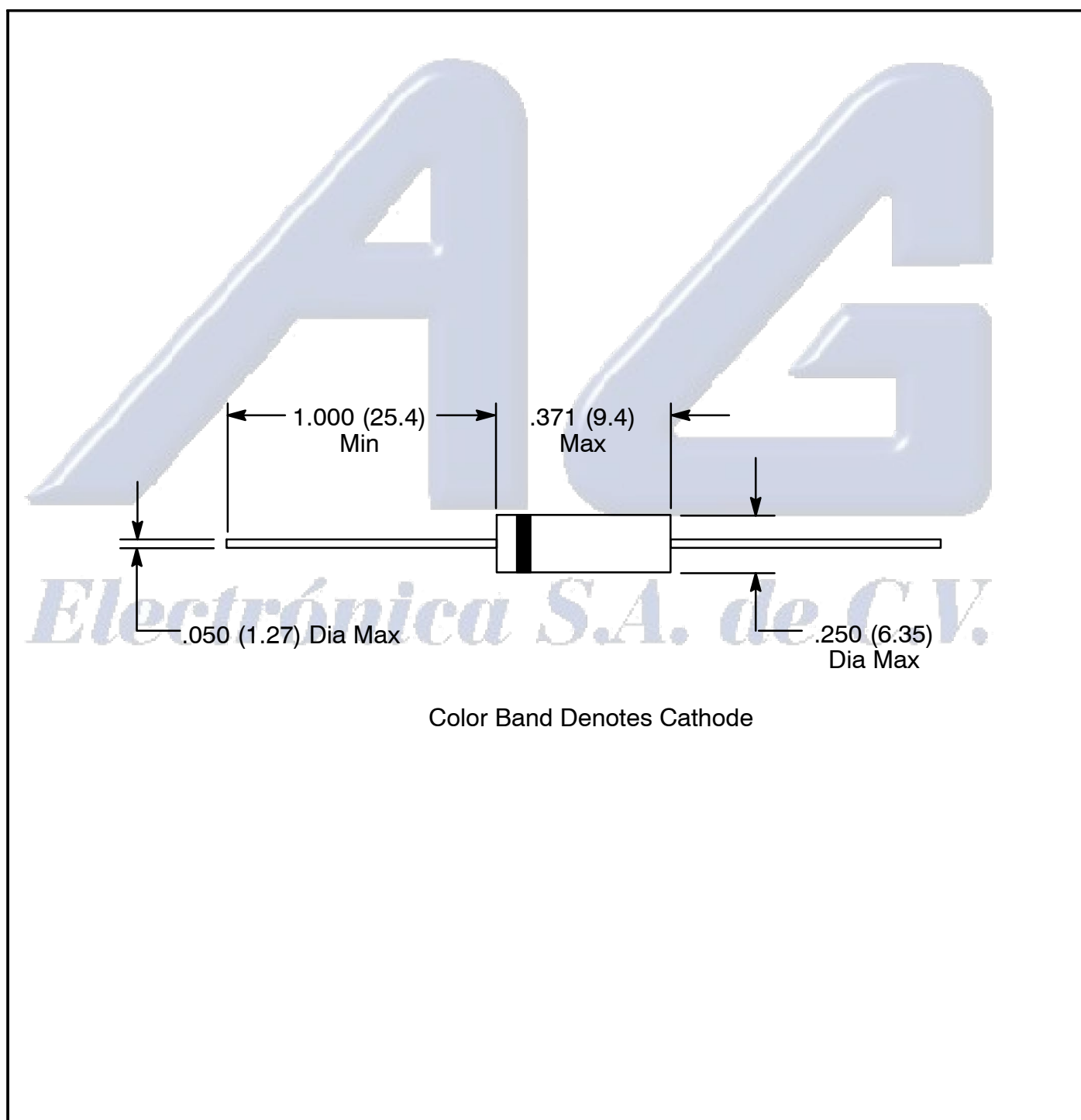
Storage Junction Temperature Range,  $T_{stg}$  .....  $-65^\circ$  to  $+175^\circ\text{C}$

Thermal Resistance, Junction-to-Ambient (PC Board Mount, 1/2" Leads),  $R_{thJA}$  .....  $+53^\circ\text{C/W}$

**Electrical Characteristics:**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Instantaneous Forward Voltage	$v_F$	$i_F = 9.4A$ , Note 1	–	–	1.2	V
Average Reverse Current	$I_{R(AV)}$	Note 1	–	–	500	$\mu A$
DC Reverse Current	$I_R$	Rated DC Voltage, $T_L = 150^\circ C$	–	–	500	$\mu A$

Note 1. Measured in a single-phase half-wave circuit and operated at rated load conditions:  
 $T_L = 105^\circ C$ .  $I_O = 3A$ .  $V_r = V_{RWM}$ .



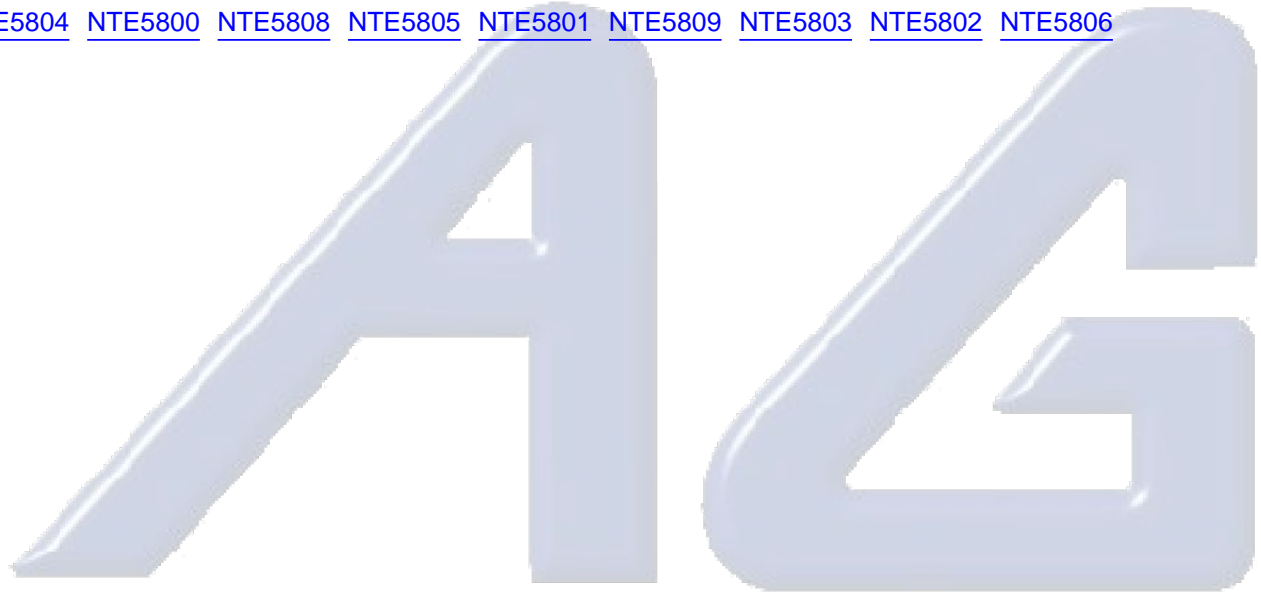
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