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## NTE116 General Purpose Silicon Rectifier DO-41 Type Package

**Description:**

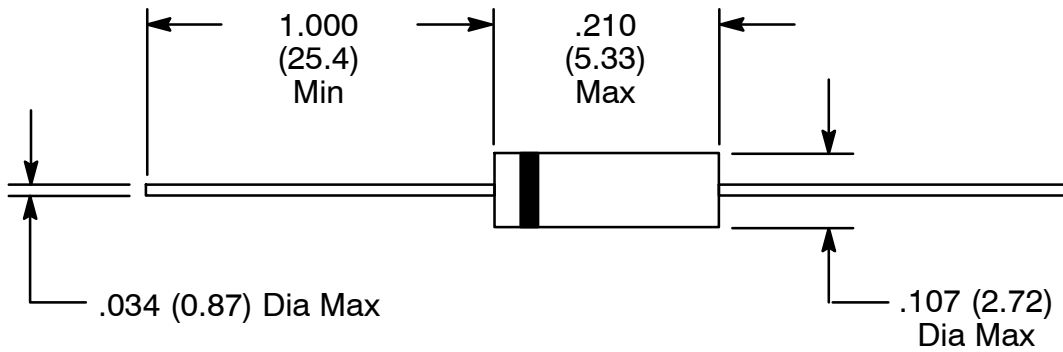
The NTE116 is a general purpose silicon rectifier in a DO-41 case designed for low power and switching applications.

**Absolute Maximum Ratings:**

- Peak Repetitive Reverse Voltage,  $V_{RRM}$  ..... 600V
- Working Peak Reverse Voltage,  $V_{RWM}$  ..... 600V
- DC Blocking Voltage,  $V_R$  ..... 600V
- Non-Repetitive Peak Reverse Voltage (Halfwave, Single Phase, 60Hz),  $V_{RSM}$  ..... 720V
- RMS Reverse Voltage,  $V_{R(RMS)}$  ..... 420V
- Average Rectified Forward Current,  $I_O$   
 (Single Phase, Resistive Load, 60Hz,  $T_A = +75^\circ\text{C}$ ) ..... 1A
- Non-Repetitive Peak Surge Current,  $I_{FSM}$   
 (Surge applied at rated load conditions for 1 cycle) ..... 30A
- Operating Junction Temperature Range,  $T_J$  .....  $-65^\circ$  to  $+175^\circ\text{C}$
- Storage Temperature Range,  $T_{stg}$  .....  $-65^\circ$  to  $+175^\circ\text{C}$
- Maximum Lead Temperature,  $T_L$   
 (During Soldering, 3/8" from case for 10sec at 5lbs tension) .....  $+350^\circ\text{C}$

**Electrical Characteristics:**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Maximum Instantaneous Forward Voltage Drop	$v_F$	$i_F = 1A, T_J = +25^\circ\text{C}$	-	0.93	1.1	V
Maximum Full-Cycle Average Forward Voltage Drop	$V_{F(AV)}$	$I_O = 1A, T_L +75^\circ\text{C}, 1''$ leads	-	-	0.8	V
Maximum Reverse Current	$I_R$	$V_{RRM} = 600V, T_J = +25^\circ\text{C}$	-	0.05	10	$\mu\text{A}$
		$V_{RRM} = 600V, T_J = +100^\circ\text{C}$	-	1.0	50	
Maximum Full-Cycle Average Reverse Current	$I_{R(AV)}$	$I_O = 1A, T_L +75^\circ\text{C}, 1''$ leads	-	-	30	$\mu\text{A}$



Color Band Denotes Cathode