



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089
<http://www.nteinc.com>

1N4245 thru 1N4249 General Purpose Silicon Rectifier DO-41 Type Package

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Working Peak Reverse Voltage ($T_J = -65^\circ$ to $+175^\circ\text{C}$), V_{RWM}

1N4245	200V
1N4246	400V
1N4247	600V
1N4248	800V
1N4249	1000V

DC Blocking Voltage ($T_J = -65^\circ$ to $+175^\circ\text{C}$), V_R

1N4245	200V
1N4246	400V
1N4247	600V
1N4248	800V
1N4249	1000V

Average Forward Current, I_O

$T_A = +55^\circ\text{C}$	1A
$T_A = +25^\circ\text{C}$	2.5A

Non-Repetitive Peak Surge Current (0.0083sec, Half Sine Wave), I_{FSM} 25A

Non-Repetitive Peak Surge Current (0.001sec, Half Sine Wave), I_{FSM}

Full Load, $T_J = +160^\circ\text{C}$	90A
No Load, $T_A = +25^\circ\text{C}$	100A

I^2t , RMS for Fusing (0.001 to 0.01sec), I^2t 4A²sec

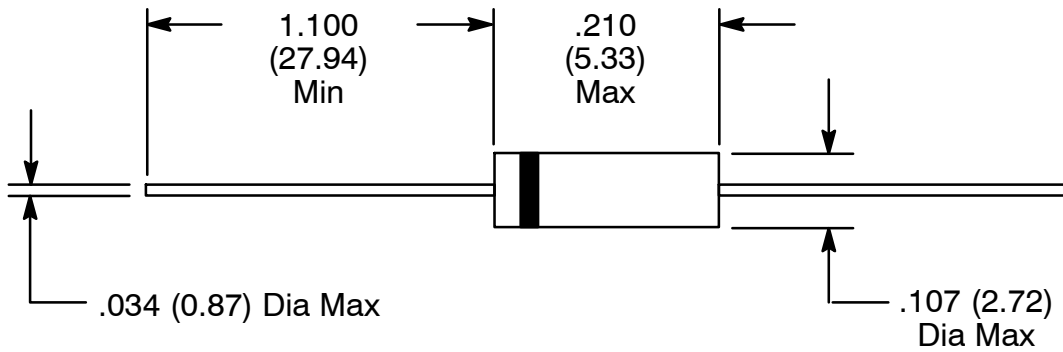
Peak Non-Repetitive Reverse Power Rating (20 μ s, Half Sine wave, $T_J = \text{Max}$), P_{RM} 1000W

Operating Junction Temperature Range, T_J -65° to $+160^\circ\text{C}$

Storage Temperature Range, T_{stg} -65° to $+200^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage Drop	V_F	$I_F = 1\text{A}$, $T_A = +55^\circ\text{C}$	-	-	1.2	V
Reverse Current	I_{RM}	$V_{RRM} = \text{Rated Voltage}$, $T_J = +25^\circ\text{C}$	-	-	1.0	μA
		$V_{RRM} = \text{Rated Voltage}$, $T_J = +125^\circ\text{C}$	-	-	25	μA
Reverse Recovery Time	t_{rr}		-	2.5	5.0	μs



Color Band Denotes Cathode