



THE DATASHEET OF
1N5627





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

1N5624 thru 1N5627 Glass Passivated Junction Rectifier 3 Amp

Features:

- Glass Passivated Cavity-Free Junction
- High Temperature Metallurgically Bonded Construction
- Hermetically Sealed Package
- Typical I_R Less Than $0.1\mu A$
- 3 Amp Operation at $T_A = +70^\circ C$ with No Thermal Runaway
- High Temperature Soldering Guaranteed

Maximum Ratings and Electrical Characteristics: ($T_A = +25^\circ C$ unless otherwise specified)

Maximum Repetitive Peak Reverse Voltage, V_{RRM}	
1N5624	200V
1N5625	400V
1N5626	600V
1N5627	800V
Maximum RMS Voltage, V_{RMS}	
1N5624	140V
1N5625	280V
1N5626	420V
1N5627	560V
Maximum DC Blocking Voltage, V_{DC}	
1N5624	200V
1N5625	400V
1N5626	600V
1N5627	800V
Maximum Average Forward Rectified Forward Current, $I_{(AV)}$ (.375" (9.5mm) Lead Length at $T_A = +70^\circ C$)	
	3A
Peak Forward Surge Current, I_{FSM} (8.3ms Single Half Sine-Wave Superimposed on Rated Load)	
	125A
Maximum Instantaneous Forward Voltage (at 3A), V_F	
$T_A = +25^\circ C$	1V
$T_A = +70^\circ C$	0.95V
Maximum DC Reverse Current ($V_{DC} =$ Rated Voltage), I_R	
$T_A = +25^\circ C$	$5\mu A$
$T_A = +175^\circ C$	
1N5624, 1N54625	$300\mu A$
1N5627, 1N54628	$200\mu A$
Maximum Full Load Reverse Current, $I_{R(AV)}$ (Full Cycle Average, .375" (9.5mm) Lead Length at $T_A = +70^\circ C$)	
1N5624, 1N54625	$150\mu A$
1N5626, 1N54627	$100\mu A$

Maximum Ratings and Electrical Characteristics (Cont'd): ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Typical Junction Capacitance (Note 1), C_J 40pF

Typical Thermal Resistance, Junction-to-Ambient (Note 2), R_{thJA} $+20^\circ\text{C/W}$

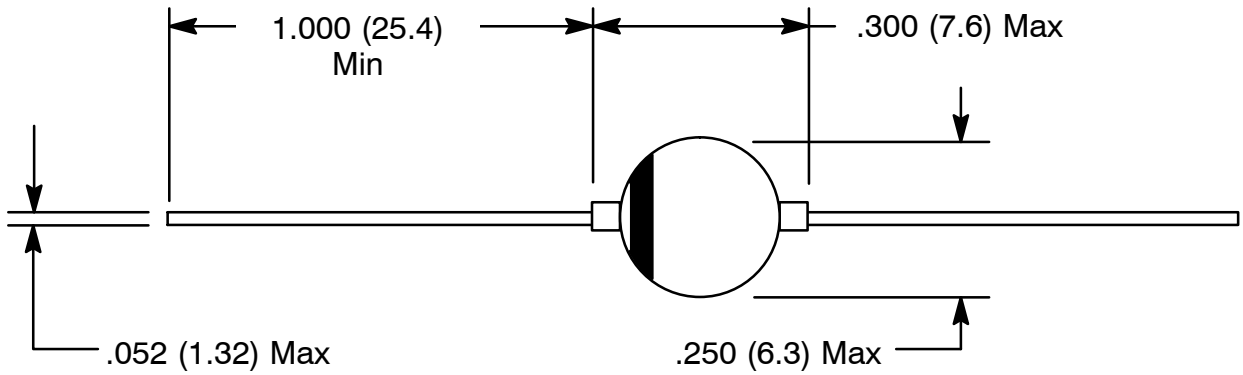
Typical Thermal Resistance, Junction-to-Lead (Note 2), R_{thJL} $+10^\circ\text{C/W}$

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

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

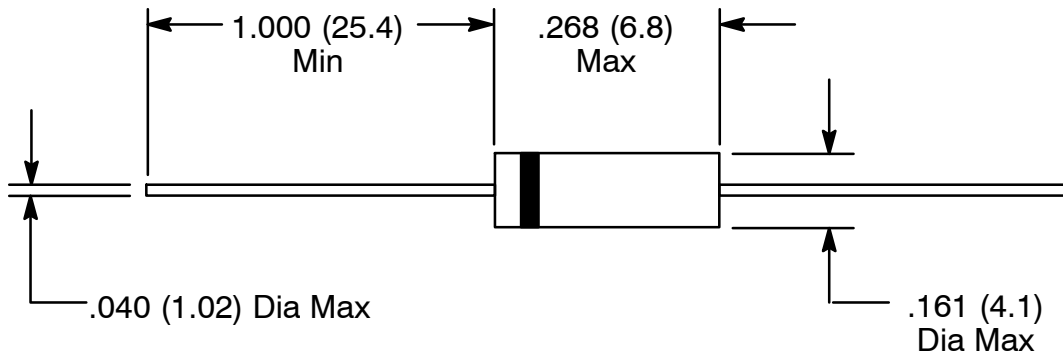
Note 1. Measured at 1Mhz and applied reverse voltage of 4V.

Note 2. Thermal resistance from junction-to-ambient and from junction-to-lead at .375" (9.5mm) lead length with both leads attached between heatsinks.



Color Band Denotes Cathode


Alternate Case Style



Color Band Denotes Cathode

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View 1N5627 on WIN SOURCE](#)

 [NTE Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management