



THE DATASHEET OF
1N5625





ELECTRONICS, INC.
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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} $+20^\circ\text{C/W}$

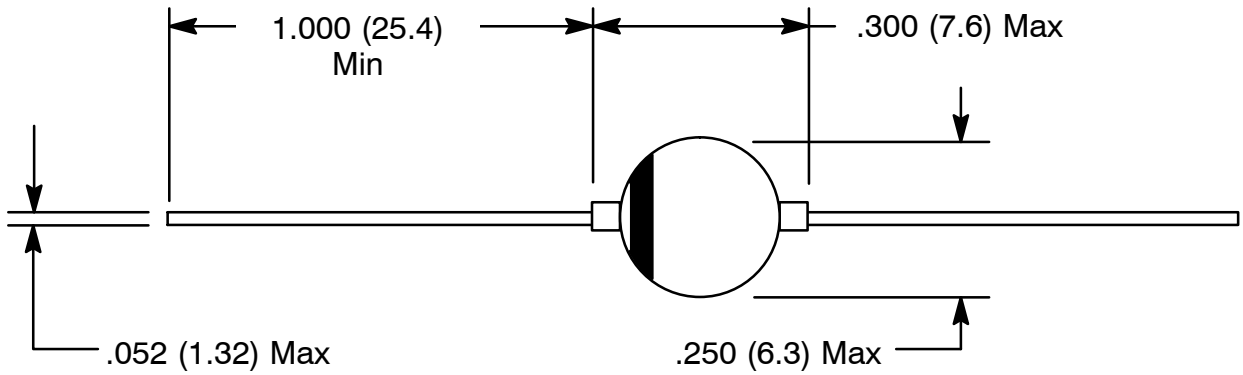
Typical Thermal Resistance, Junction-to-Lead (Note 2), R_{thJL} $+10^\circ\text{C/W}$

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

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

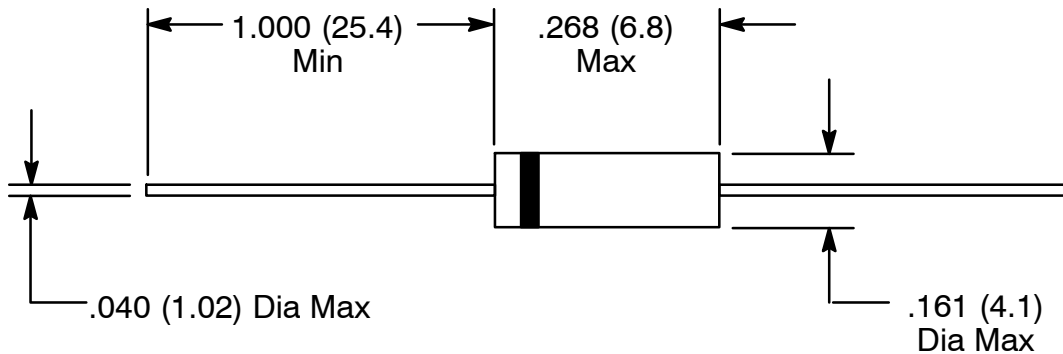
Note 1. Measured at 1Mhz and applied reverse voltage of 4V.

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

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