ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089
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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 0.1μA
- 3 Amp Operation at T_A = +70°C with No Thermal Runaway
- High Temperature Soldering Guaranteed

Maximum Ratings and Electrical Characteristics: (T_A = +25°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°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°C 1V
- T_A = +70°C 0.95V

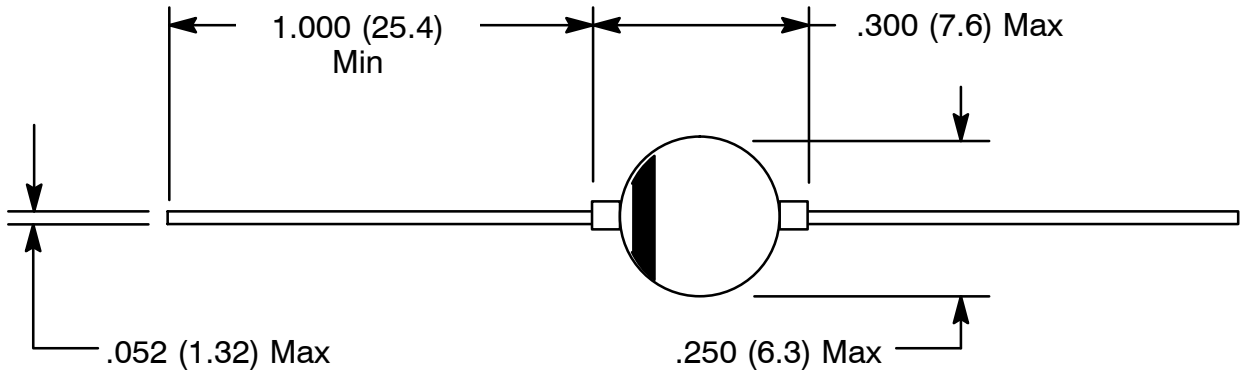
Maximum DC Reverse Current (V_{DC} = Rated Voltage), I_R
- T_A = +25°C 5μA
- T_A = +175°C
  - 1N5624, 1N54625 . . . . . 300μA
  - 1N5627, 1N54628 . . . . . 200μA

Maximum Full Load Reverse Current, $I_{R(AV)}$
- (Full Cycle Average, .375” (9.5mm) Lead Length at T_A = +70°C)
  - 1N5624, 1N54625 . . . . . 150μA
  - 1N5626, 1N54627 . . . . . 100μA

Maximum Ratings and Electrical Characteristics (Cont'd): (T_A = +25°C unless otherwise specified)

Typical Junction Capacitance (Note 1), C_J 40pF
Typical Thermal Resistance, Junction–to–Ambient (Note 2), R_{thJA} . . . . . +20°C/W
Typical Thermal Resistance, Junction–to–Lead (Note 2), R_{thJL} . . . . . +10°C/W
Operating Junction Temperature Range, T_J . . . . . –65° to +175°C
Storage Junction Temperature Range, T_{stg} . . . . . –65° to +200°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