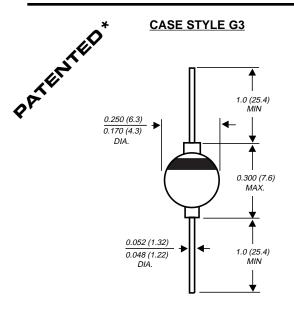
# 1N5624 THRU 1N5627

## **GLASS PASSIVATED JUNCTION RECTIFIER**

Reverse Voltage - 200 to 800 Volts Forward Current - 3.0 Amperes



Dimensions in inches and (millimeters)

\* Brazed-lead assembly is covered by Patent No. 3,930,306

#### **FEATURES**

- ♦ Glass passivated cavity-free junction
- High temperature metallurgically bonded constructed
- Hermetically sealed package
- Capable of meeting environmental standards of MIL-S-19500
- Typical I<sub>R</sub> less than 0.1μA
- ◆ 3.0 Ampere operation at T<sub>A</sub>=70°C with no thermal runaway
- ◆ High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

### **MECHANICAL DATA**

Case: Solid glass body

Terminals: Solder plated axial leads, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.04 ounce, 1.1 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

		SYMBOLS	1N5624	1N5625	1N5626	1N5627	UNITS
*Maximum repetitive peak reverse voltage		VRRM	200	400	600	800	Volts
Maximum RMS voltage		V <sub>RMS</sub>	140	280	420	560	Volts
*Maximum DC blocking voltage		V <sub>DC</sub>	200	400	600	800	Volts
*Maximum average forward rectified current 0.375" (9.5mm) lead length at T <sub>A</sub> =70°C		I <sub>(AV</sub>	3.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	125.0				Amps
*Maximum instantaneous forward voltage at 3.0A T <sub>A</sub> =25°C T <sub>A</sub> =70°C		VF	1.0 0.95				Volts
Maximum DC reverse current at rated DC blocking voltage	T <sub>A</sub> =25°C T <sub>A</sub> =175°C	IR	5.0 300.0 200.0		0.0	μА	
*Maximum full load reverse current, full cycle average, 0.375" (9.5mm) lead length at T <sub>A</sub> =70°C		IR(AV)	150.0		100.0		μА
Typical junction capacitance (NOTE 1)		CJ	40.0				pF
Typical thermal resistance (NOTE 2)		R⊕ja R⊕jl	20.0 10.0			°C/W	
*Operating junction temperature range		TJ	-65 to +175			°C	
*Storage temperature range		Tstg	-65 to +200			°C	

#### NOTES

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (2) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, with both leads attached between heatsinks
- \*JEDEC registered values



# **RATINGS AND CHARACTERISTIC CURVES 1N5624 THRU 1N5627**

