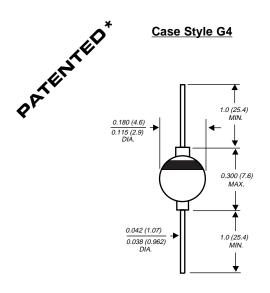
G4A THRU G4J

GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 3.0 Amperes



Dimensions in inches and (millimeters)

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

FEATURES

- High temperature metallurgically bonded construction
- ◆ Glass passivated cavity-free junction
- ♦ Hermetically sealed package
- ◆ 3.0 Ampere operation at T_A=75°C with no thermal runaway
- Typical I_R less than 0.1μA
- Capable of meeting environmental standards of MIL-S-19500
- 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: 0.037 ounce, 1.04 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	G4A	G4B	G4D	G4G	G4J	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	Volts
Maximum average forward rectified current, 0.375" (9.5mm) lead length at T _A =70°C	I _(AV)			3.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM			100.0			Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.1					Volts
Maximum full load reverse current full cycle average, 0.375" (9.5mm) lead length at Ta=70°C	I _{R(AV)}	200.0					μА
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	lR	1.0 100.0					μА
Typical reverse recovery time (NOTE 1)	trr			3.0			μs
Typical junction capacitance (NOTE 2)	CJ			40.0			pF
Typical thermal resistance (NOTE 3)	R⊕ja R⊕jl	22.0 12.0					°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175					°C

NOTES

- (1) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length with both leads mounted between heatsinks



RATINGS AND CHARACTERISTIC CURVES G4A AND G4J

