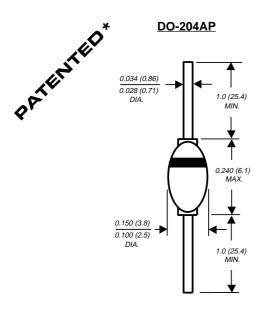
# **G2A THRU G2M**

### **GLASS PASSIVATED JUNCTION RECTIFIER**

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 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 2.0 Ampere operation at T<sub>A</sub>=75°C with no thermal runaway
- Typical I<sub>R</sub> 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: JEDEC DO-204AP 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: 0.02 ounce, 0.56 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	G2A	G2B	G2D	G2G	G2J	G2K	G2M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T <sub>A</sub> =75°C	I <sub>(AV)</sub>				2.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50.0							Amps
Maximum instantaneous forward voltage at 2.0A	VF	1.2				Volts			
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at T <sub>A</sub> =100°C	I <sub>R(AV)</sub>	100.0						μΑ	
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=150°C	lR	1.0 100.0							μΑ
Typical reverse recovery time (NOTE 1)	trr	1.5							μs
Typical junction capacitance (NOTE 2)	CJ	15.0							pF
Typical thermal resistance (NOTE 3)	R⊝JA	55.0						°C/W	
Operating junction and storage temperature range	TJ, TSTG	-65 to +175							°C

#### NOTES:

- (1) Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>r</sub>r=0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length P.C.B mounted.



## RATINGS AND CHARACTERISTIC CURVES G2A AND G2M

FIG. 1 - FORWARD CURRENT DERATING CURVE 2.0 60 Hz AVERAGE FORWARD RECTIFIED CURRENT, AMPERES RESISTIVE OR INDUCTIVE LOAD 1.5 CAPACITANCE 1.0 lpk/lav= 10 0.5 0.375" (9.5mm) LEAD LENGTH 0 0 25 100 150 50 75 125 175 AMBIENT TEMPERATURE, °C

