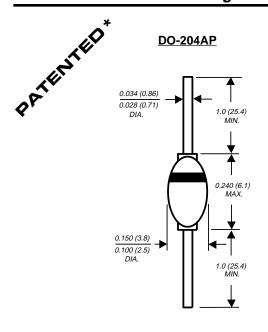
G1A THRU G1M

GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere



Dimensions in inches and (millimeters)

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

FEATURES

- High temperature metallurgically bonded constructed rectifiers
- Glass passivated cavity-free junction in D0-204AP package
- ♦ Hermetically sealed package
- ◆ 1.0 ampere operation at T_A=100°C with no thermal runaway
- Typical IR 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.

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	SYMBOLS	G1A	G1B	G1D	G1G	G1J	G1K	G1M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	70	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at Ta=100°C	I _(AV)	1.0						Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50.0						Amps	
Maximum instantaneous forward voltage at 1.0A	VF	1.2 1.1					Volts		
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at Ta=100°C	P I _{R(AV)}	200.0					μА		
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=150°	l lo	2.0 100.0							μА
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⊝JL	55.0					°C/W		
Operating junction and storage temperature range	TJ, TSTG	65 to +175						°C	

NOTES:

- (1) Measured with IF=0.5A, IR=1.0A, Irr=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 G1A AND G1M

FIG. 1 - FORWARD CURRENT DERATING CURVE 1.0 60 Hz RESISTIVE OR AVERAGE FORWARD RECTIFIED CURRENT, AMPERES INDUCTIVE LOAD 0.8 0.6 CAPACITANCE LOAD 5.0 0.4 lpk/lav= 0.2 0.375" (9.5mm) LEAD LENGTH 0 0 25 50 75 100 125 150 175 AMBIENT TEMPERATURE, °C

