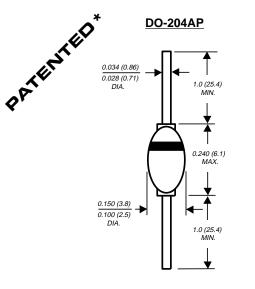
RG1A THRU RG1M

GLASS PASSIVATED FAST SWITCHING 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 construction
- Hermetically sealed package
- Glass passivated cavity-free junction
- ◆ 1.0 Ampere operation at T_A=55°C with no thermal runaway
- ♦ Typical I_R less than 0.1µA
- Capable of meeting environmental standards of MIL-S-19500
- Fast switching for high efficiency
- High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO204AP 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	RG1A	RG1B	RG1D	RG1G	RG1J	RG1K	RG1M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=55°C	I(AV)				1.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.3							Volts
Maximum full load reverse current, full cycle average 0.375" (9.5mm)Ta=25°Clead length atTA=100°C	IR(AV)	1.0 100.0							μA
Maximum DC reverse current at rated DC blocking voltage	IR	2.0							μΑ
Maximum reverse recovery time (NOTE 1)	t _{rr}			150		200	250	500	ns
Typical junction capacitance (NOTE 2)	CJ	15.0							рF
Typical thermal resistance (NOTE 3)	R _{ΘJA}	55.0							°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175							°C

NOTES:

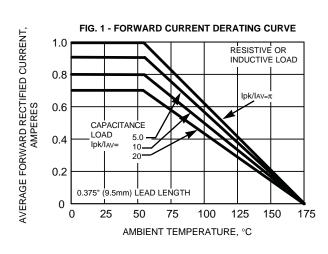
(1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A

(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 RG1A AND RG1M



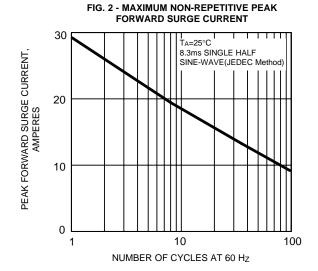


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

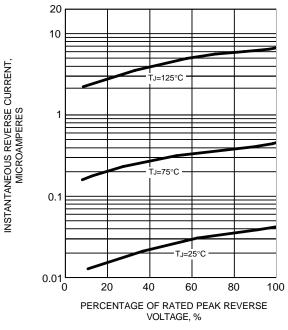
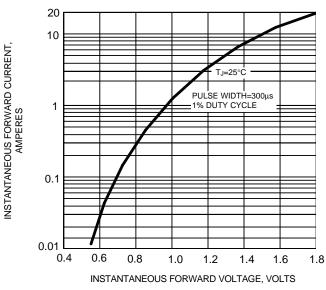
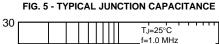
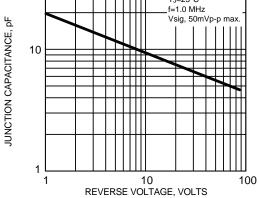


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS









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