New Jersey Semi-Conductor Products, Inc.

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RG1 SERIES

MINIATURE GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER



VOLTAGE RANGE 50 to 1000 Volta

CURRENT 1.0 Ampere

FEATURES

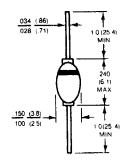
- High temperature metallurgically bonded no compression contacts as found in diode-constructed rectifiers
- Glass passivated junction in a DO-204AP package
 1 ampere operation at T_A = 55°C with no
- thermal runaway
- Typical In less than 1 4 A
- Fast switching for high efficiency.
- Exceeds environmental standards of MIL-STD-19500
 High temperature soldering guaranteed 350° C/10 seconds/.375" (9.5mm) lead length/5 lbs., (2.3) tension

MECHANICAL DATA

Case: One piece glass, hermetically sealed Terminals: Axial leads, solderable per MIL-STD-202, Method 208 Polarity: Color band denotes cathode

Mounting Position: Any Weight: .02 ounce, .56 gram

DO-204AP



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		RG1A	RG18	RG1D	RG1G	RG1J	RG1K	RG1M	UNIT
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	. <u>v</u>
Maximum DC Blocking Voltage		50	70	200	400	600	800	1000	V
Maximum Average Forward Rectified Current, .3: (9.5mm) Lead Length at TA = 55°C	75"				1.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		30							A
Maximum Instantaneous Forward Voltage at 1.0A					1.3				V
	= 25°C 100°C				1.0 100				μ Α μ Α
Maximum DC Reverse Current, at Rated DC Blocking Voltage					2.0				μA
Maximum Reverse Recovery Time (Note 1)		150	150	150	150	200	250	500	ns
Typical Junction Capacitance (Note 2)				•	10				рF
Operating and Storage Temperature Range, TJ, TSTG		-65 to +175							°C

1. Measured with IF = .5A, IR = 1A, Irr = .25A.
2. Measured at 1.0MHz and applied reverse voltage of 4.0VDC.

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