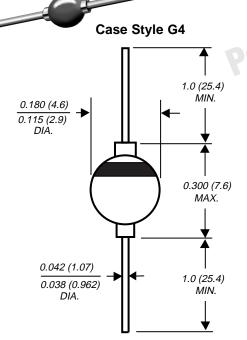
# **RG4A THRU RG4J**

Reverse Voltage 50 to 600 V

Forward Current 3.0 A

## **Glass Passivated Fast Switching Rectifier**



Dimensions in inches and (millimeters)

## Features

- High temperature metallurgically bonded construction
- Cavity-free glass passivated junction
- Capable of meeting environmental standards of MIL-S-19500
- · Fast switching for high efficiency
- 3.0 ampere operation at TA=50°C with no thermal runaway
- Typical I<sub>R</sub> less than 0.1μA
- Hermetically sealed package
- 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 & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	RG4A	RG4B	RG4D	RG4G	RG4J	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	V
Maximum average forward rectified current 0.375" (9.5mm) lead lengths at T <sub>A</sub> =55°C	I <sub>F(AV)</sub>		А				
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100					A
Maximum average reverse current T <sub>A=2</sub> at peak reverse voltage T <sub>A=1</sub>	I ID/A\/\	2.0 100					μА
Typical thermal resistance (NOTE 1)	R⊖JA			22			°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175					°C

### Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	RG4A	RG4B	RG4D	RG4G	RG4J	UNITS
Maximum instantaneous forward voltage at 3.0A	VF			1.3			V
Maximum reverse current at rated DC blocking voltage	I <sub>R</sub>			5.0			μΑ
Maximum reverse recovery time at IF=0.5A, IR=1.0A, Irr=0.25A	trr			150		250	ns
Typical junction capacitance at 4.0V, 1MHz	Сл			50		-	pF

#### NOTES

<sup>\*</sup>Brazed-lead assembly is covered by Patent No. 3,930,306

<sup>(1)</sup> Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, with both leads attached to heat sink



# **RG4A THRU RG4J**

### Ratings and Characteristic Curves (T<sub>A</sub> = 25°C unless otherwise noted)

