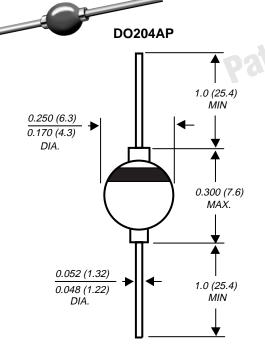


RG3A THRU RG3M

Reverse Voltage 50 to 1000 V

Forward Current 3.0 A

Glass Passivated Fast Switching Rectifier



Dimensions in inches and (millimeters)

Features

- High temperature metallurgically bonded construction
- · Hermetically sealed package
- Cavity-free glass passivated junction
- 3.0 ampere operation at TA=55°C with no thermal runaway
- Typical IR 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: 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:** 0.04 ounce, 1.1 grams

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	RG3A	RG3B	RG3D	RG3G	RG3J	RG3K	RG3M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=55°C	I _{F(AV})	3.0							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 _A =25°C at rated peak reverse voltage T _A =100°C	IR(AV)	2.0 100							μА
Typical thermal resistance (NOTE 1)	R⊝JA	55							°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	RG3A	RG3B	RG3D	RG3G	RG3J	RG3K	RG3M	UNITS
Maximum instantaneous forward voltage at 3.0A	VF	1.3							V
Maximum DC reverse current at rated DC blocking voltage	IR	5.0							μΑ
Maximum reverse recovery time at at I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	t _{rr}		1:	50		250	400	500	ns
Typical junction capacitance at 4.0V, 1MHz	CJ	40							pF

NOTES

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

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

Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

