



ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	RGF1A	RGF1B	RGF1D	RGF1G	RGF1J	RGF1K	RGF1M	UNIT
Maximum instantaneous forward voltage	1.0 A	V_F	1.3							V
Maximum DC reverse current at rated DC blocking voltage	$T_A = 25\text{ }^\circ\text{C}$	I_R	5.0							μA
	$T_A = 125\text{ }^\circ\text{C}$		100							
Typical reverse recovery time	$I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $t_{rr} = 0.25\text{ A}$	t_{rr}	150			250		500		ns
Typical junction capacitance	4.0 V, 1 MHz	C_J	8.5							pF

THERMAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	RGF1A	RGF1B	RGF1D	RGF1G	RGF1J	RGF1K	RGF1M	UNIT	
Typical thermal resistance	$R_{\theta JA}$ ⁽¹⁾	80								$^\circ\text{C/W}$
	$R_{\theta JL}$ ⁽¹⁾	28								

Note

⁽¹⁾ Thermal resistance from junction to ambient and from junction to lead, PCB mounted on 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

ORDERING INFORMATION (Example)

PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
RGF1J-E3/67A	0.104	67A	1500	7" diameter plastic tape and reel
RGF1J-E3/5CA	0.104	5CA	6500	13" diameter plastic tape and reel
RGF1JHE3_A/H ⁽¹⁾⁽²⁾	0.104	H	1500	7" diameter plastic tape and reel
RGF1JHE3_A/I ⁽¹⁾⁽²⁾	0.104	I	6500	13" diameter plastic tape and reel
RGF1KHE3_B/H ⁽¹⁾⁽³⁾	0.104	H	1500	7" diameter plastic tape and reel
RGF1KHE3_B/I ⁽¹⁾⁽³⁾	0.104	I	6500	13" diameter plastic tape and reel

Notes

- ⁽¹⁾ AEC-Q101 qualified
- ⁽²⁾ _A is applied for A to J class
- ⁽³⁾ _B is applied for K and M class

RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

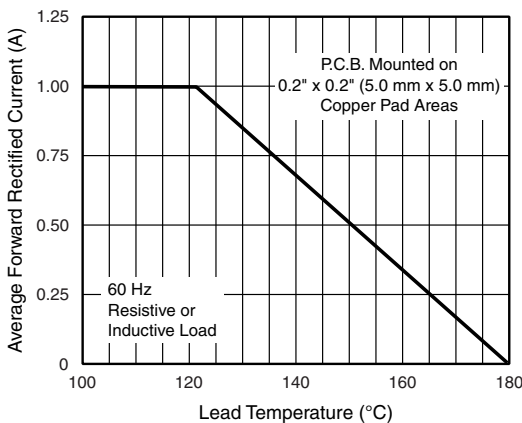


Fig. 1 - Forward Current Derating Curve

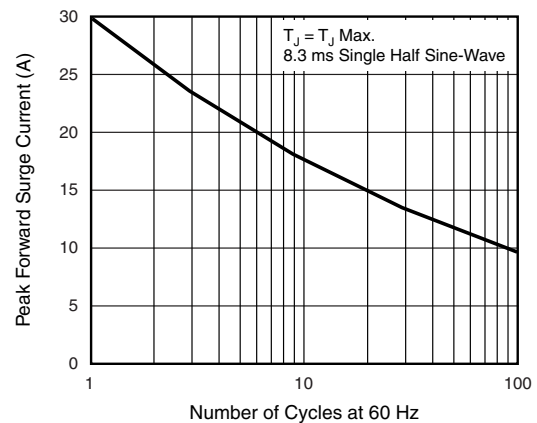


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

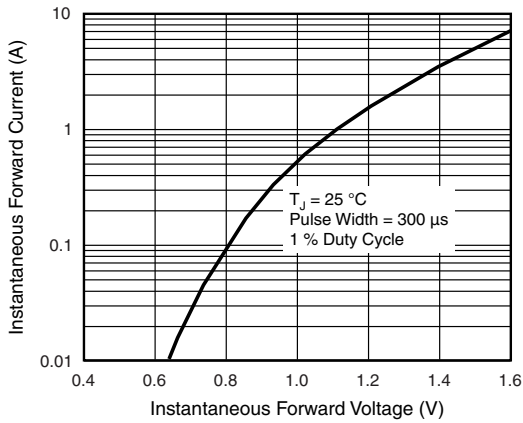


Fig. 3 - Typical Instantaneous Forward Characteristics

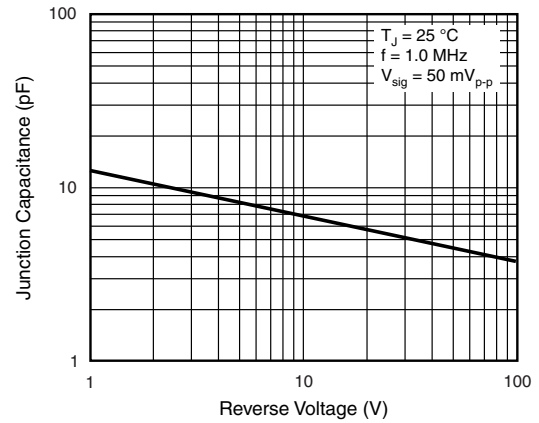


Fig. 5 - Typical Junction Capacitance

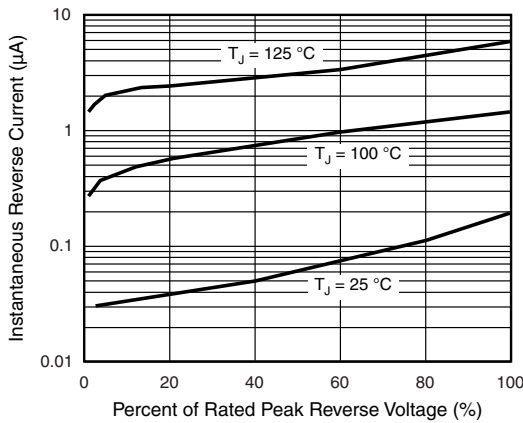


Fig. 4 - Typical Reverse Characteristics

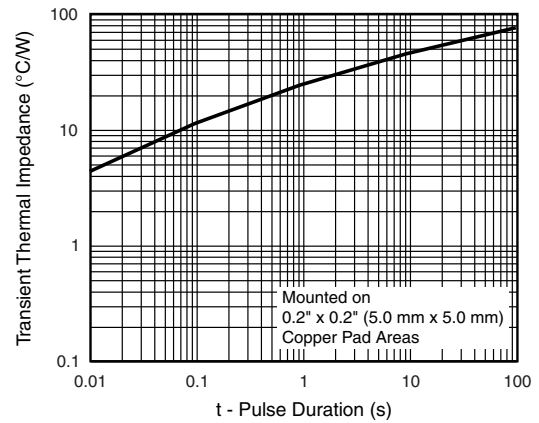
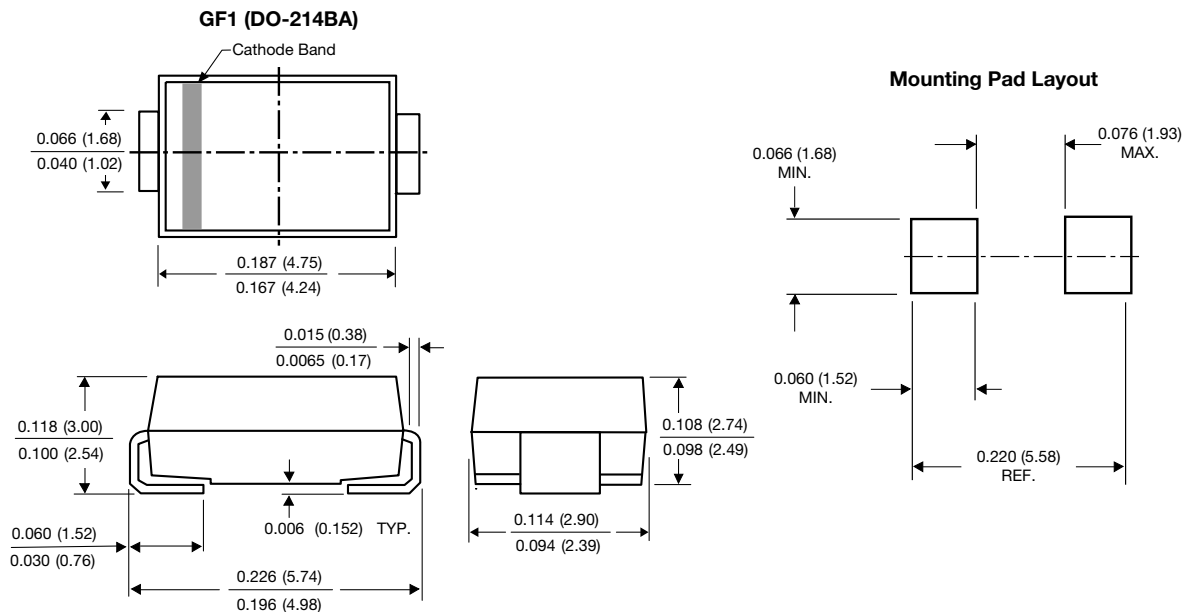


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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