ELECTRICAL CHARACTERISTICS (T_A = 25 °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 °C	I_R	5.0							μA
	T_A = 125 °C		100							
Typical reverse recovery time	I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 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 °C unless otherwise noted)									
PARAMETER	**SYMBOL**	**RGF1A**	**RGF1B**	**RGF1D**	**RGF1G**	**RGF1J**	**RGF1K**	**RGF1M**	**UNIT**
Typical thermal resistance	$R_{\theta JA}$ (1)	80							°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 °C unless otherwise noted)

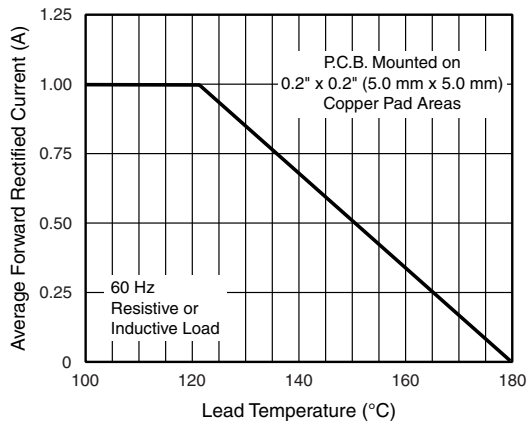


Fig. 1 - Forward Current Derating Curve

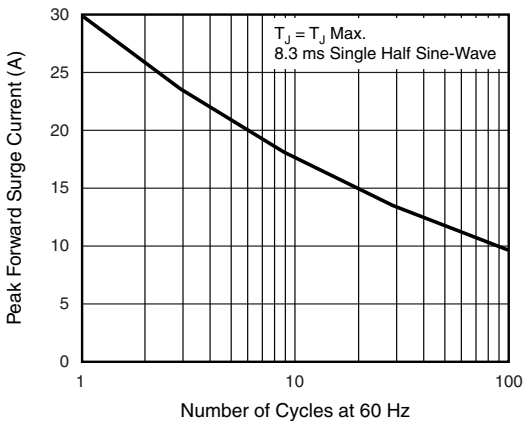


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

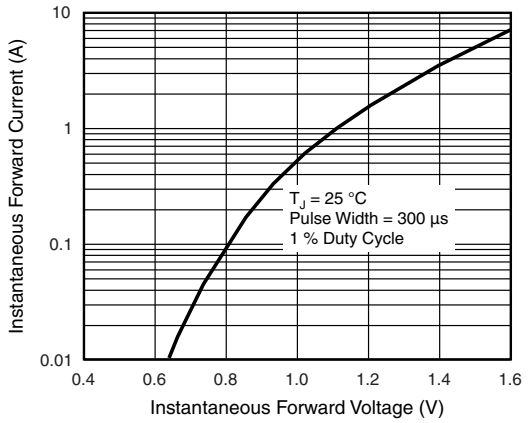


Fig. 3 - Typical Instantaneous Forward Characteristics

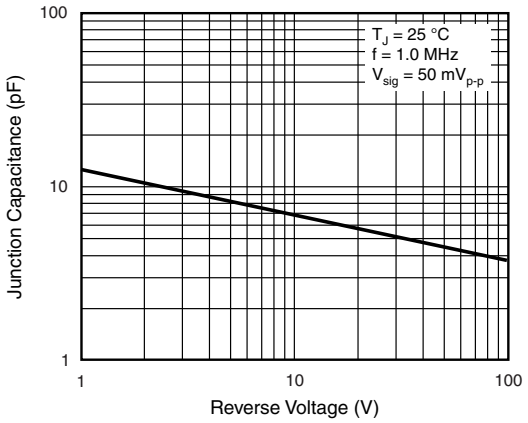


Fig. 5 - Typical Junction Capacitance

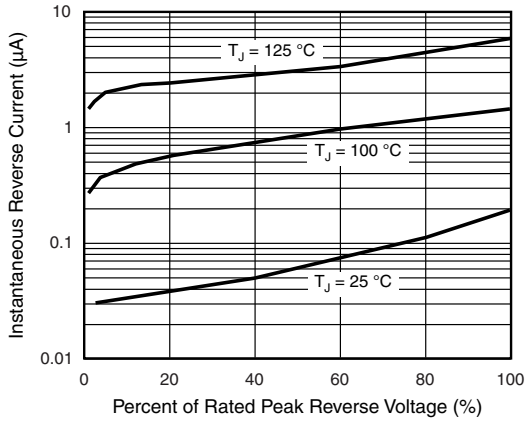


Fig. 4 - Typical Reverse Characteristics

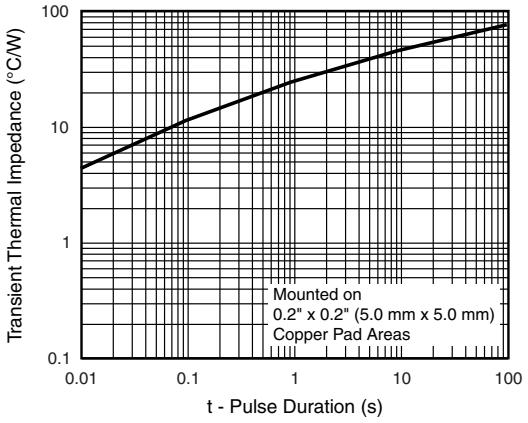
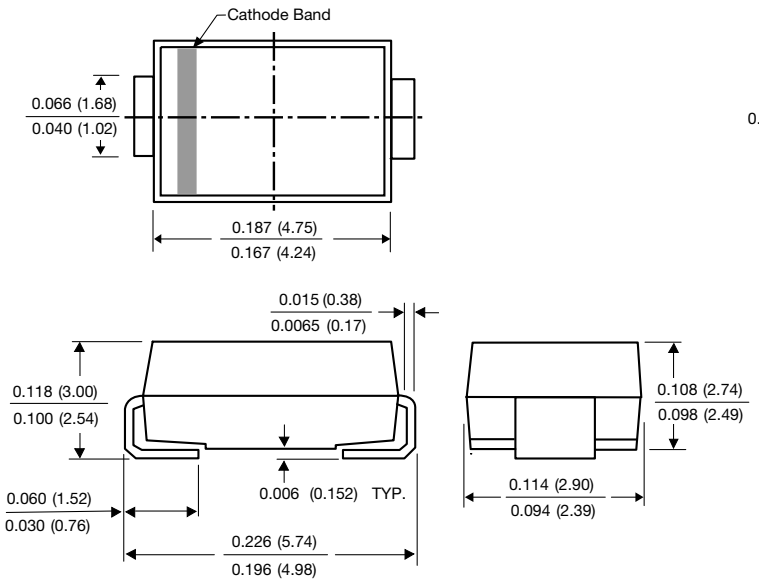


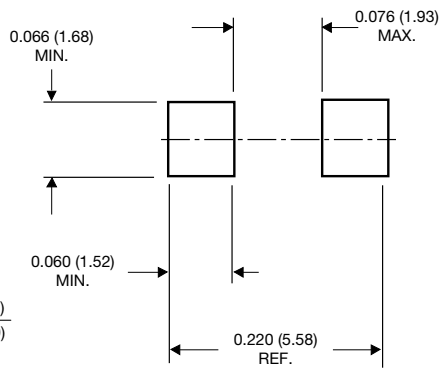
Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

GF1 (DO-214BA)



Mounting Pad Layout



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