

■ FEATURES

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

■ TYPICAL APPLICATIONS

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

■ MECHANICAL DATA

- **Package:** SMAF
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■ MAXIMUM RATINGS (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	G2AF	G2BF	G2DF	G2GF	G2JF	G2KF	G2MF
Device marking code			G2AF	G2BF	G2DF	G2GF	G2JF	G2KF	G2MF
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, resistance load, TL (Fig.1)	IO	A				2.0			
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, Ta=25°C	IFSM	A				50			
Storage temperature	Tstg	°C				-55~+150			
Junction temperature	Tj	°C				-55~+150			

■ TYPICAL CHARACTERISTICS (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	G2AF	G2BF	G2DF	G2GF	G2JF	G2KF	G2MF
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=2.0A					1.1		
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	IRRM	μA	Ta =25°C					5.0		
			Ta =125°C					100		

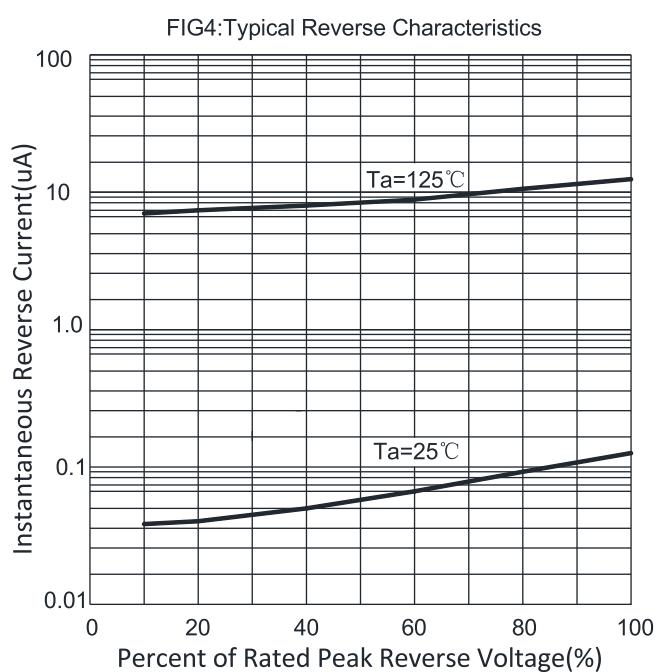
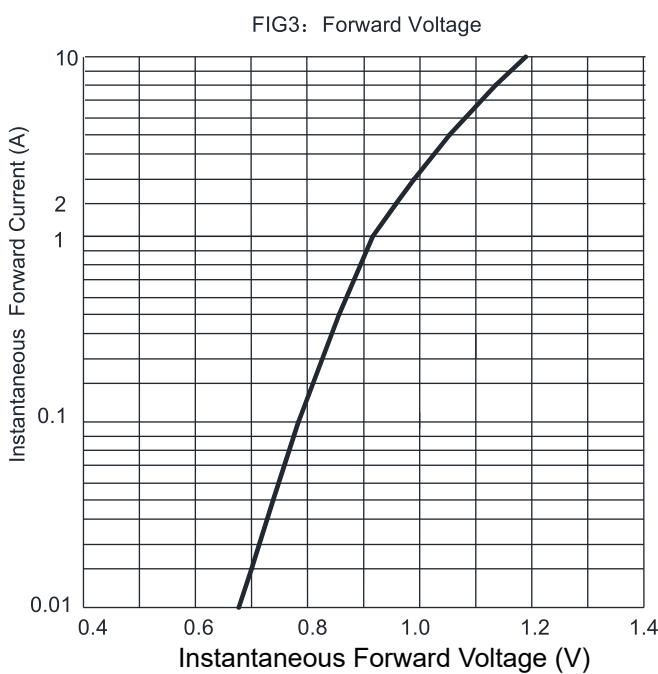
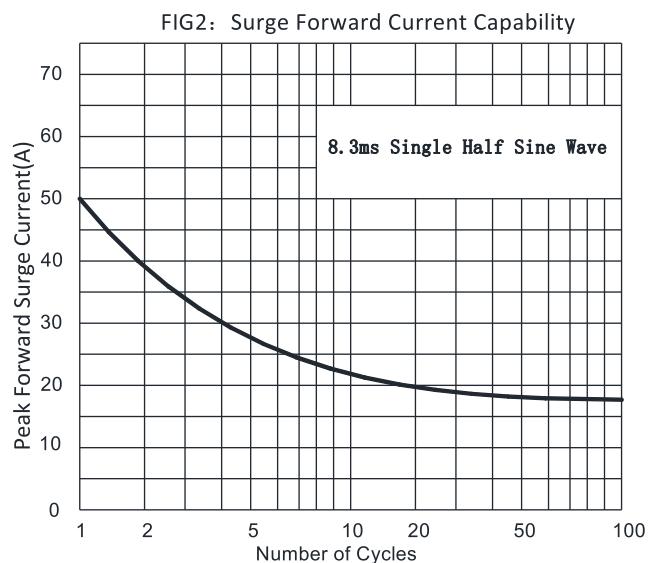
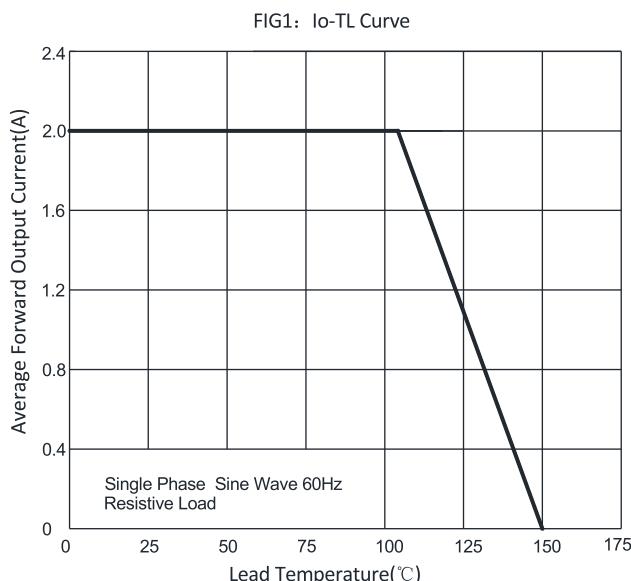
■ THERMAL CHARACTERISTICS (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	G2AF	G2BF	G2DF	G2GF	G2JF	G2KF	G2MF
Thermal resistance	RθJ-A ⁽¹⁾	°C/W				65 ⁽¹⁾			
	RθJ-L ⁽¹⁾					25 ⁽¹⁾			

Note:

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

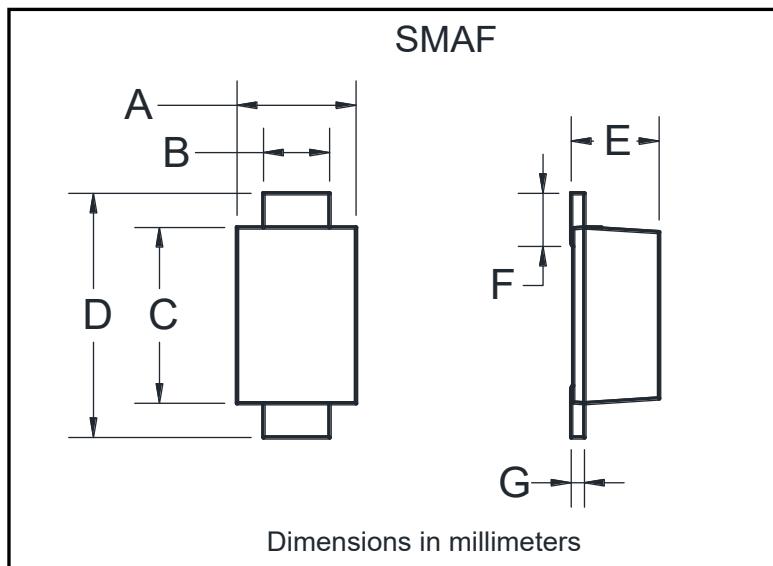
■ CHARACTERISTICS (TYPICAL)



■ PACKAGING INFORMATION

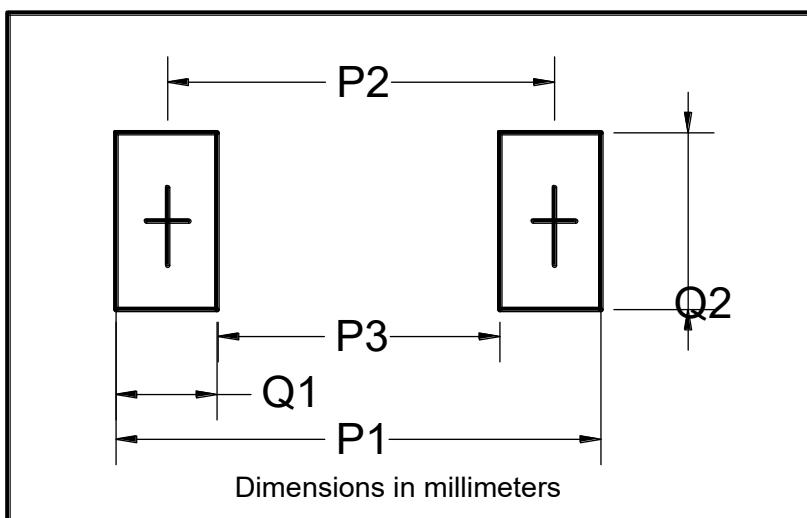
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
G2AF-G2MF	XO7	Approximate 0.034	3000	12000	96000	7" reel
G2AF-G2MF	Omit for Standard	Approximate 0.034	10000	20000	160000	13" reel

■ OUTLINE DIMENSIONS



SMAF		
Dim	Min	Max
A	2.40	2.80
B	1.35	1.45
C	3.40	3.60
D	4.40	4.80
E	1.05	1.25
F	0.50	1.00
G	0.15	0.22

■ SUGGESTED PAD LAYOUT



SMAF	
Dim	Millimeters
P1	6.50
P2	4.00
P3	1.50
Q1	2.50
Q2	1.70