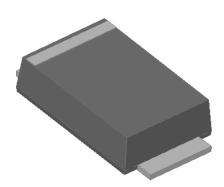




Surface Mount General Purpose Rectifier





Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- \bullet 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
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, resistance load, TL (Fig.1)	IO A 2.0								
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		^	50						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	I _{FSM}	A	100						
Current squared time @1ms≤t≤8.3ms Tj=25°C	l ² t A ² s 10.735								
Storage temperature	T _{stg}	°C	-55 ~ + 150						
Junction temperature	Tj	°C	-55 ~ +150						

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	G2AF	G2BF	G2DF	G2GF	G2JF	G2KF	G2MF
Maximum instantaneous forward voltage	VF	V	IFM=2.0A	1.1						
Maximum DC reverse current at		μA	T _j =25°C	5.0						
rated DC blocking voltage	"1"	μΛ	T _j =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C				12			

G2AF THRU G2MF

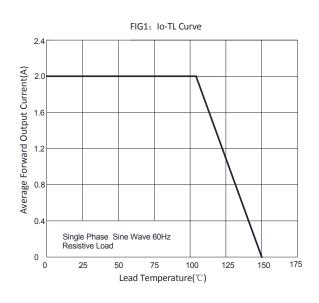
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

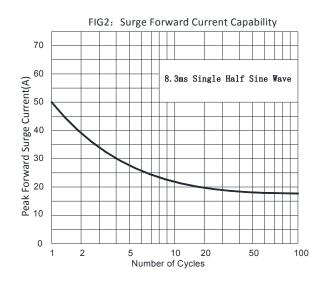
PARAMETER	SYMBOL	UNIT	G2AF	G2BF	G2DF	G2GF	G2JF	G2KF	G2MF
	RθJ-A ⁽¹⁾		60						
Typical Thermal Resistance	RθJ-L ⁽¹⁾	°C/W	20						
	RθJ-C ⁽¹⁾					15			

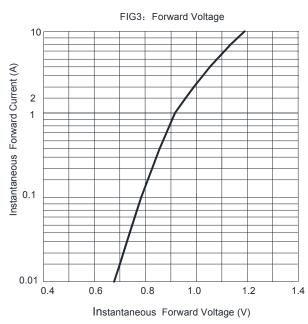
Note:

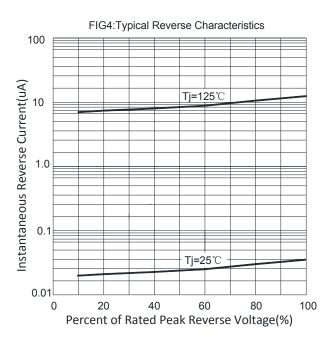
(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

■ Characteristics (Typical)









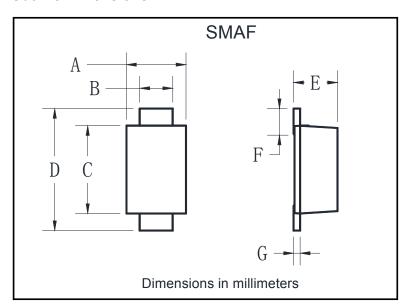


G2AF THRU G2MF

■Ordering Information (Example)

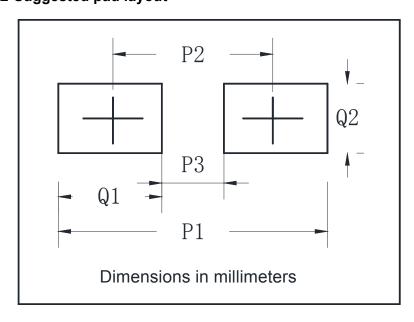
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
G2AF-G2MF	F1	Approximate 0.034	3000	24000	96000	7" reel
G2AF-G2MF	F2	Approximate 0.034	10000	/	160000	13" reel
G2AF-G2MF	F3	Approximate 0.034	10000	/	120000	13" reel
G2AF-G2MF	F4	Approximate 0.034	7500	1	120000	13" reel

■ Outline Dimensions



SMAF					
Dim	Min	Max			
Α	2.40	2.80			
В	1.35	1.45			
С	3.40	3.60			
D	4.40	4.80			
Е	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			



G2AF THRU G2MF

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