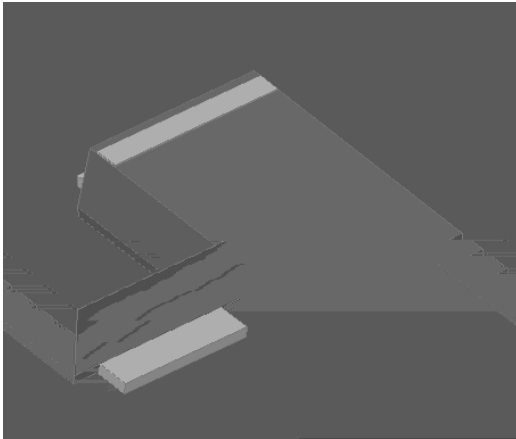


Surface Mount General Purpose Rectifier

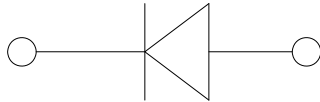


Features

- 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 ($T_a=25$ Unless otherwise specified)

Parameter	Symbol	Unit	50	100	200	400	600	800	1000
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, $T_j=25$	IFSM	A	50						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25$			100						
Current squared time @1ms t 8.3ms $T_j=25$	I^2t	A ² s	10.735						
Storage temperature	Tstg		-55 ~ +150						
Junction temperature	Tj		-55 ~ +150						

Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	G2AF	G2BF	G2DF	Rated DC blocking voltage	IR	A
			$T_j=125$					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 $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	
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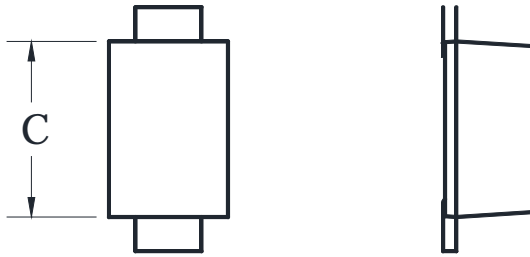
G2AF THRU G2MF

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	/	120000	13" reel

Outline Dimensions

SMAF



Dimensions in millimeters

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



Disclaimer

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