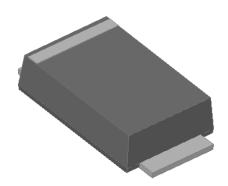
Surface Mount General Purpose Rectifier





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 $^\circ\text{C}$

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	G1AF	G1BF	G1DF	G1GF	G1JF	G1KF	G1MF
Device marking code			G1AF	G1BF	G1DF	G1GF	G1JF	G1KF	G1MF
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	А	1.0						
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Ta=25°C	IFSM	A	30						
Storage temperature	Tstg	°C	-55~+150						
Junction temperature	Tj	°C	-55~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	G1AF	G1BF	G1DF	G1GF	G1JF	G1KF	G1MF
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A 1.		1.1					
Maximum DC reverse current at rated DC blocking voltage	IRRM		Ta=25℃	5.0						
per diode @ VRM=VRRM	יהיאוי	μA	T _a =125℃				100			

1/4



G1AF THRU G1MF

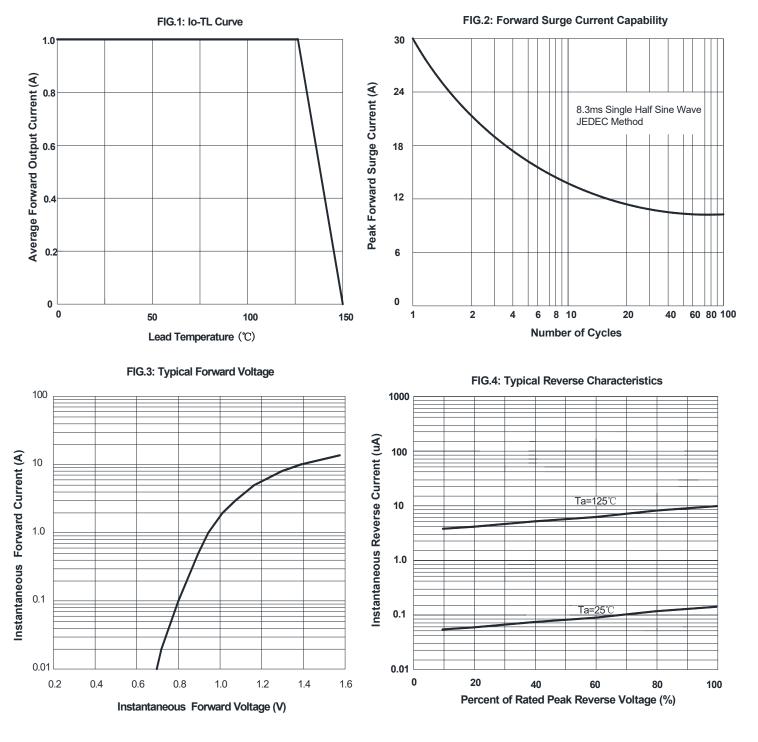
$\blacksquare Thermal \ Characteristics \ (T_a=25^{\circ}C \ Unless \ otherwise \ specified)$

PARAMETER	SYMBOL	UNIT	G1AF	G1BF	G1DF	G1GF	G1JF	G1KF	G1MF
Typical Thermal resistance	R0J-A ⁽¹⁾	°C/W	65						
	Røj-L ⁽¹⁾	C/VV	20						

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

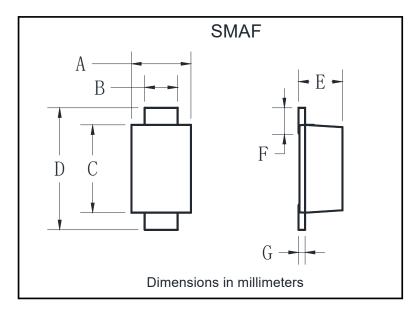
Characteristics (Typical)



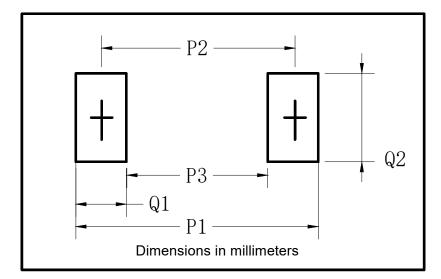
■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
G1AF-G1MF	F1	Approximate 0.034	3000	12000	96000	7" reel
G1AF-G1MF	F2	Approximate 0.034	10000	20000	160000	13" reel
G1AF-G1MF	F3	Approximate 0.034	10000	20000	120000	13" reel
G1AF-G1MF	F4	Approximate 0.034	7500	15000	120000	13" reel

Outline Dimensions



Suggested pad layout



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

SMAF

Min

2.40

1.35

3.40

4.40

1.05

0.50

0.15

Dim

А

B C

D

Е

F G Max

2.80

1.45

3.60

4.80

1.25

1.00

0.22



G1AF THRU G1MF

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4/4

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