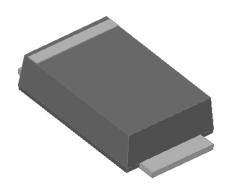
## **Surface Mount General Purpose Rectifier**





#### 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 <sub>a</sub> =125℃				100			

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# **G1AF THRU G1MF**

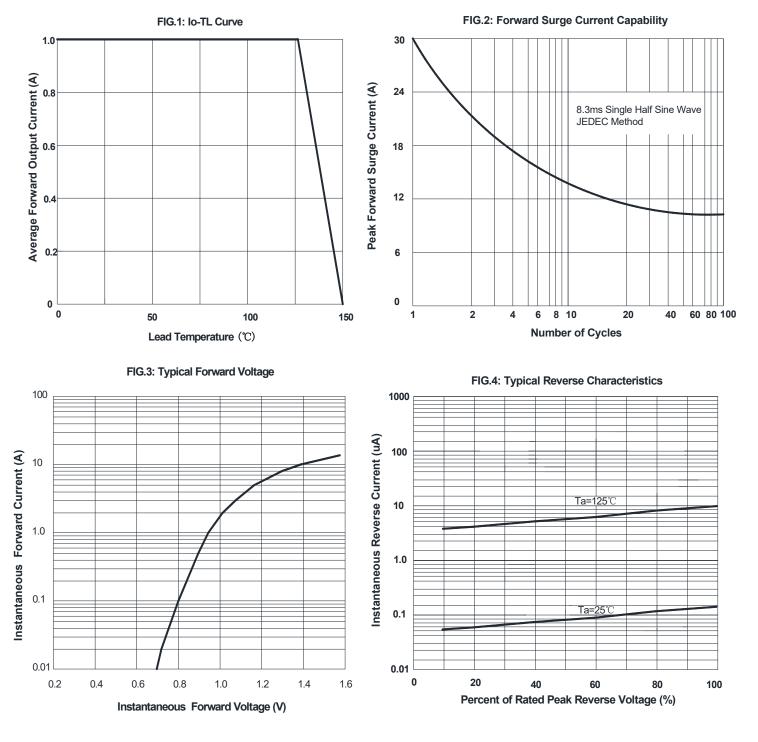
### $\blacksquare Thermal \ Characteristics \ (T_a=25^{\circ}C \ Unless \ otherwise \ specified)$

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

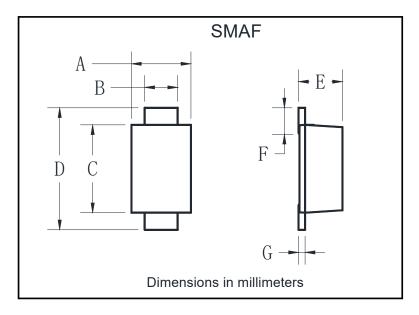
## Characteristics (Typical)



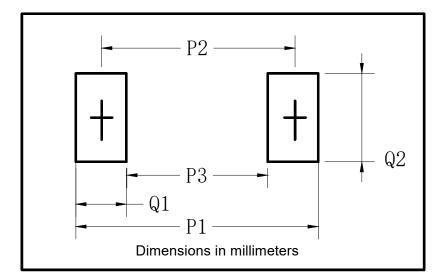
## ■Ordering Information (Example)

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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