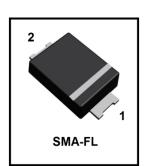


S-FMAF407

Surface Mount Glass Passivated Junction Rectifiers Reverse Voltage 1000V Forward Current 1.0A

1. FEATURES

- We declare that the material of product complies with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- High temperature metallurgically bonded construction.
- Cavity-free glass passivated junction.
- Typical IR less than 1.0µA
- High temperature soldering guaranteed:260°C/10 seconds.
- 1.0 A operation at TL=100°C with no thermal runaway.
- Capable of meeting environmental standards of MIL-S-19500.





2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S-FMAF407	M07	3000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC blocking voltage	VDC	1000	V
Maximum average forward rectified current	IF(AV)	1	Α
lead length (See fig. 1) at TC = 75°C	IF(AV)		^
Peak forward surge current 8.3ms single half sine-wave	ie-wave IFSM 30 A		Α
superimposed on rated load (JEDEC Method)			A
Typical thermal resistance (Note 1)	RθJA	150	°C/W
Operating junction and storage temperature range	TJ, TSTG	−50 ~+150	°C

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum instantaneous forward voltage at 1.0A	VF	1	1	1.1	V
Maximum DC reverse current TA = 25°C	IR	-	-	5	μA
at rated DC blocking voltage TA = 125°C	IIX	-	-	50	μΑ
Typical junction capacitance at 4.0V, 1MHz	CJ	-	8	-	PF

- 1. IF = 0.5A, IR = 1.0A, IRR = 0.25A
- 2. 8.0mm² (.013mm thick) land areas



5. ELECTRICAL CHARACTERISTICS CURVES

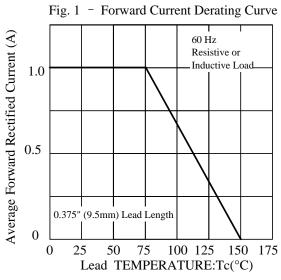


Fig 3. - Typical Instantaneous Forward

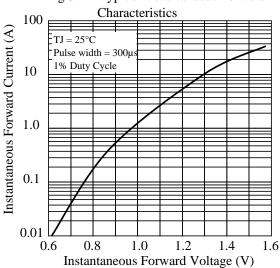


Fig 5. - typical transient thermal

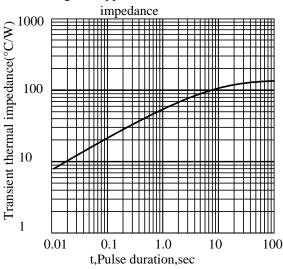


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current 50 TJ = TJ max8.3ms Single Half Sine-way (JEDEC Method)

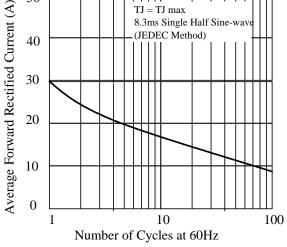


Fig 4. - Typical Reverse Characteristics

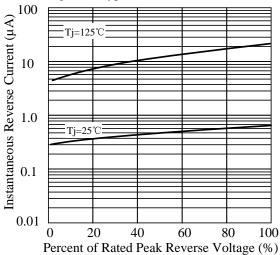
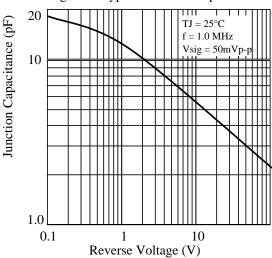
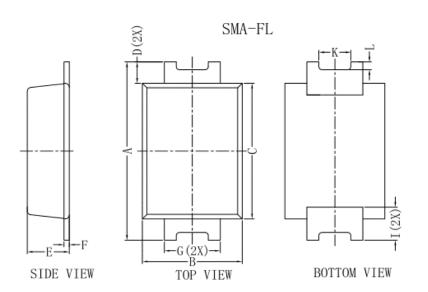


Fig 6. - Typical Junction Capacitance





6.OUTLINE AND DIMENSIONS

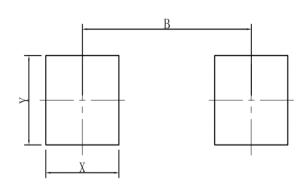


SMA-FL			
DIM	MIN	MAX	Тур.
Α	4.40	4.80	4.60
В	2.30	2.70	2.60
С	3.30	3.70	3.50
D			0.55
Е	0.90	1.20	1.05
F	0.11	0.21	0.17
G	1.30	1.50	1.40
I	1	1	0.90
K	-	-	0.80
L	-	-	0.20
All Dimensions in mm			

GENERAL NOTES

- 1.Top package surface finish Ra0.4±0.2um
- 2.Bottom package surface finish Ra0.7±0.2um

7.SOLDERING FOOTPRINT



SMA-FL		
DIM	(mm)	
Χ	1.60	
Υ	1.80	
В	3.70	



DISCLAIMER

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 contents. LRC shall not be in any way responsible or liable for failure, malfunction or accident arising
 from the use of any LRC's Products against warning, caution or note contained in this document.
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