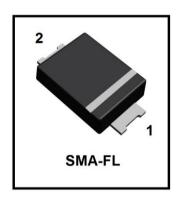


S-SM160AF

Schottky Barrier Rectifiers Reverse Voltage 60V Forward Current 1.0A

1. FEATURES

- We declare that the material of product compliance 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.
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Guardring for over voltage protection
- High temperature soldering guaranteed: 260°C/10 seconds at terminals





2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S-SM160AF	S16	3000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	60	V
Maximum RMS voltage	VRMS	42	V
Maximum DC blocking voltage	VDC	60	V
Maximum average forward rectified current	IF(AV)	1	Α
at TC = 85°C (See fig. 1)	II (AV)		
Peak forward surge current 8.3ms single half sine-wave	IFSM	30	А
superimposed on rated load (JEDEC Method)	II SIVI	30	
Typical thermal resistance (Note 1)	RθJA	150	°C/W
Typical thermal resistance (Note 1)	RθJL	35	C/VV
Operating junction and storage temperature range	TJ, TSTG	-40 ~+150	°C

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum instantaneous forward voltage at 1.0A	VF	-	-	0.7	V
Maximum DC reverse current TA = 25°C	IR	-	-	0.5	mA
at rated DC blocking voltage Tj = 125°C		-	-	5	ША
Typical junction capacitance at 4.0V, 1MHz	CJ	-	110	-	PF

^{1. 8.0}mm² (.013mm thick) land areas



5. ELECTRICAL CHARACTERISTICS CURVES

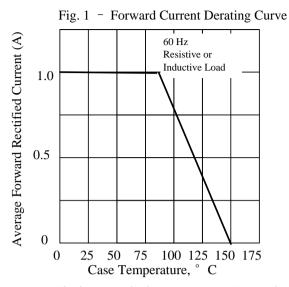


Fig 3. - Typical Instantaneous Forward

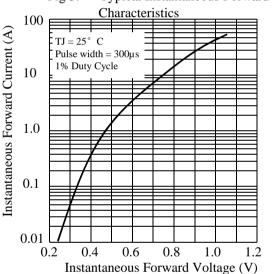


Fig 5. - typical transient thermal

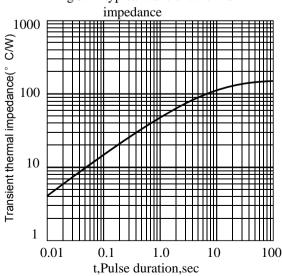


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

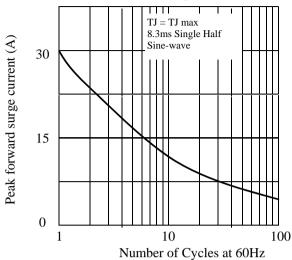


Fig 4. - Typical Reverse Characteristics

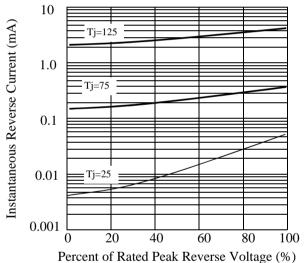
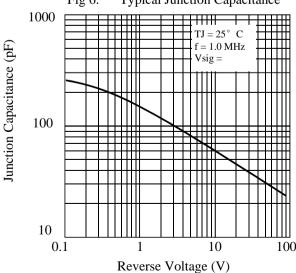
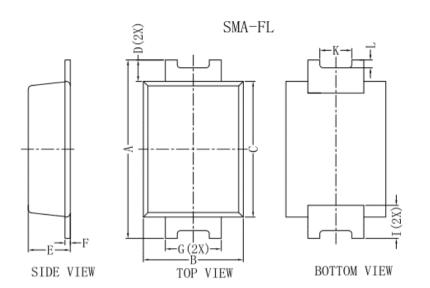


Fig 6. - Typical Junction Capacitance





6.OUTLINE AND DIMENSIONS

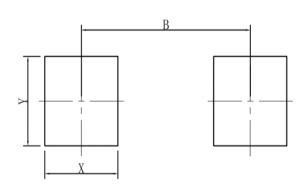


SMA-FL				
DIM	MIN	MAX	Тур.	
Α	4.40	4.80	4.60	
В	2.30	2.70	2.60	
С	3.30	3.70	3.50	
D	-	-	0.55	
Е	0.90	1.20	1.05	
F	0.11	0.21	0.17	
G	1.30	1.50	1.40	
ı	1	1	0.90	
K	-	1	0.80	
Ĺ	-	-	0.20	
All Dimensions in mm				

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

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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