

SS52AF thur SS520AF

CREATEK Microelectronics

Schottky Barrier Rectifier in SMAF

Features

- Schottky barrier diodes
- Low forward voltage drop
- High Tunction Temperature

Mechanical Data

- **Case:** SMAF (plastic package). Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals

Applications

For use in low voltage, high freqency inverters, free wheeling, and polarity protection application

Absolute Maximum Ratings Ratings at 25 °C, ambient temperature unless otherwise specified									
Parameter	SYMBOLS	SS52AF	SS54AF	SS56AF	SS58AF	SS510AF	SS515AF	SS520AF	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	40	60	80	100	150	200	V
Maximum RMS voltage		14	28	42	56	70	105	140	V
Maximum DC blocking voltage	Vdc	20	40	60	80	100	150	200	V
Maximum average forward rectified current at $TL=100$ C	l(av)	5.0				А			
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	120.0				А			
Maximum instantaneous forward voltage at 5.0A	Vf	0	.55	0.70		0.85	C).95	V
Maximum DC reverse current $T = 25^{\circ}C$ at rated DC blocking voltage $T = 125^{\circ}C$	lr	0.5 0.05 50 10			mA				
Typical thermal resistance	Rqja	80.0			°C/W				
Operating junction temperature range	TJ	-55 to +150			°C				
Storage temperature range	Тѕтс	-55 to +150			°C				

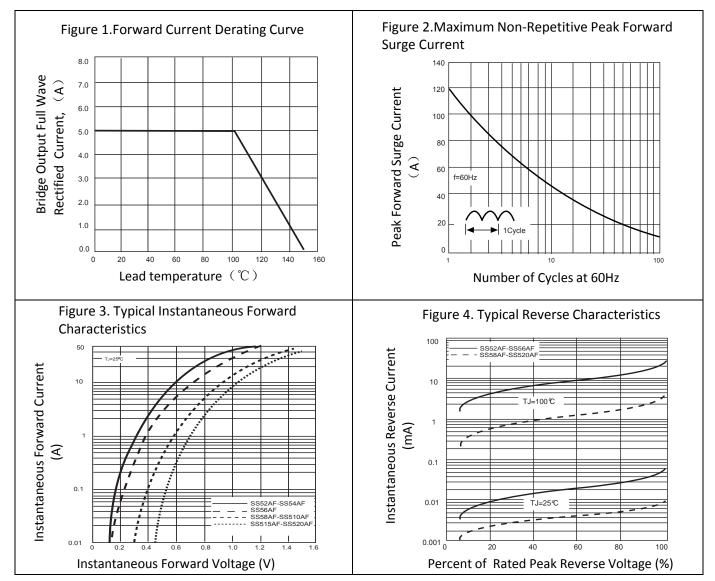
Note1:Thermal resistance from junction to lead,mounted on PCB with 5.0×5.0mm copper pads

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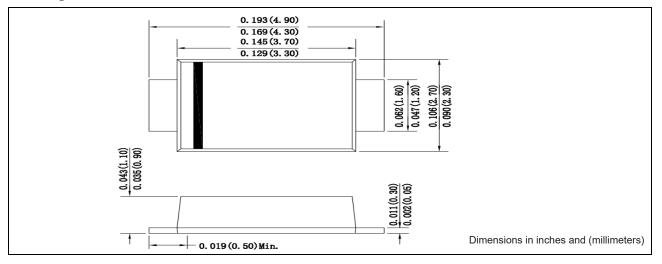
Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)



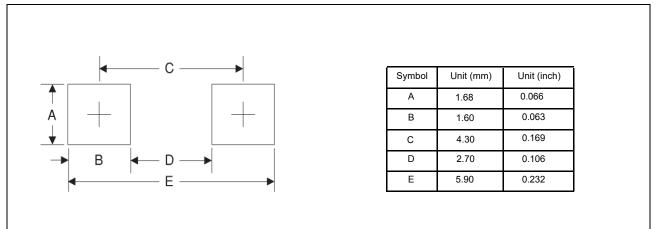
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Package Dimensions



PAD Dimensions



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification	
SS52AF Thur SS520AF	SMAF	Tape and reel	3000pcs / reel	EIA STD RS-481	

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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