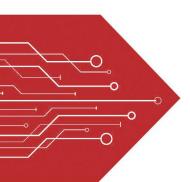
## MSKSEMI















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# Broduct data sheet



## VOLTAGE RANGE 20 to 100 Volts CURRENT 5.0 Ampere



## **FEATURES**

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop

## **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

P/N(MARK)		SS52F	SS53F	SS54F	SS55F	SS56F	SS58F	SS59F	SS510F	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	80	90	100	V
Maximum RMS Voltage		14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage		20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current										
At T <sub>L</sub> =100°C			5.0							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave										
superimposed on rated load (JEDEC method)			120							Α
Maximum Instantaneous Forward Voltage at 5.0A			0.55 0.70		70	0.85			V	
Maximum DC Reverse Current	Ta=25°C		0.1 0.02			mA				
at Rated DC Blocking Voltage	Ta=100°C		5		2		mA			
Typical Junction Capacitance (Note1)			380							pF
Typical Thermal Resistance R JL (Note 2)			10							°C/W
Operating Temperature Range T <sub>J</sub>			-65 —+150							°C
Storage Temperature Range Tsтg			-65 <sup></sup> +150							°C

#### NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead.



### RATING AND CHARACTERISTIC CURVES (SS52F THRU SS510F)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

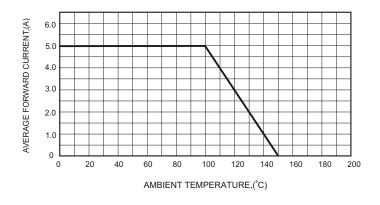
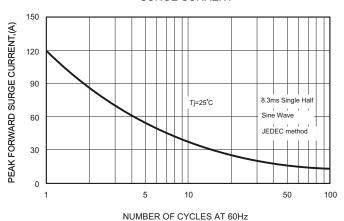


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



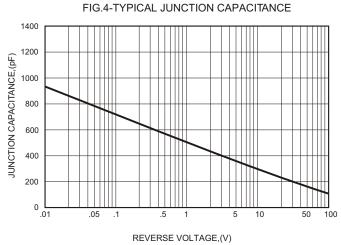


FIG.2-TYPICAL FORWARD

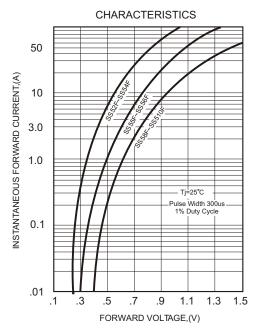
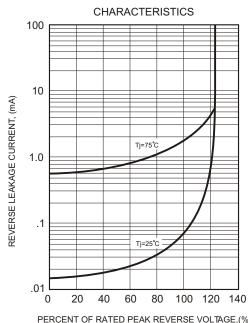
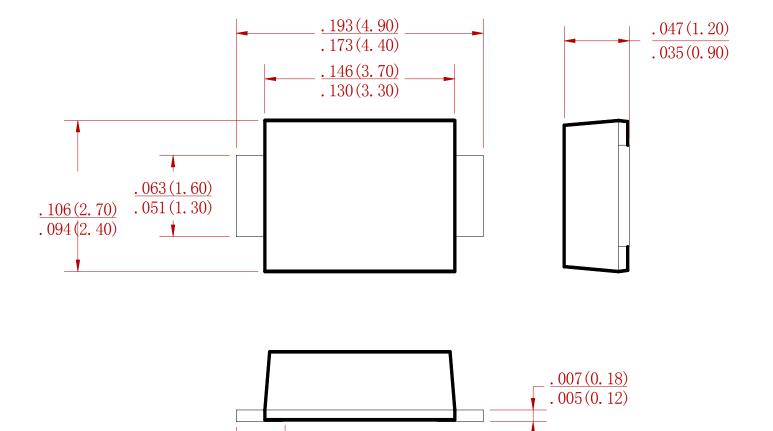


FIG.5 - TYPICAL REVERSE





## **PACKAGE MECHANICAL DATA**



Dimensions in inches and (millimeters)

-  $\frac{.051(1.30)}{.031(0.80)}$ 

## **REEL SPECIFICATION**

P/N	PKG	QTY			
SS52F THRU SS510F	SMAF	3000			



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