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		30	40	50	60	80	90	100	V
Maximum RMS Voltage		21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage		30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current									
At T _L =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		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 _J	-65 —+150				°C				
Storage Temperature Range Tsтg	-65—+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

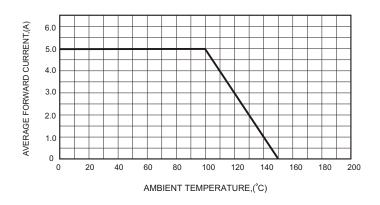
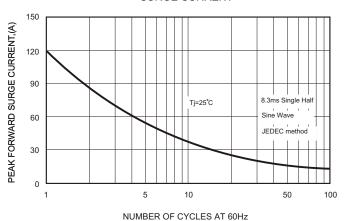


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



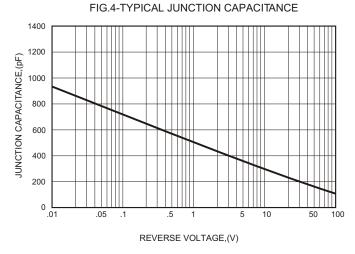


FIG.2-TYPICAL FORWARD

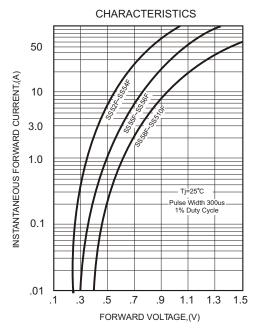
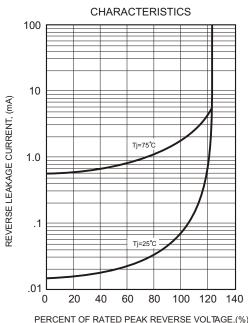
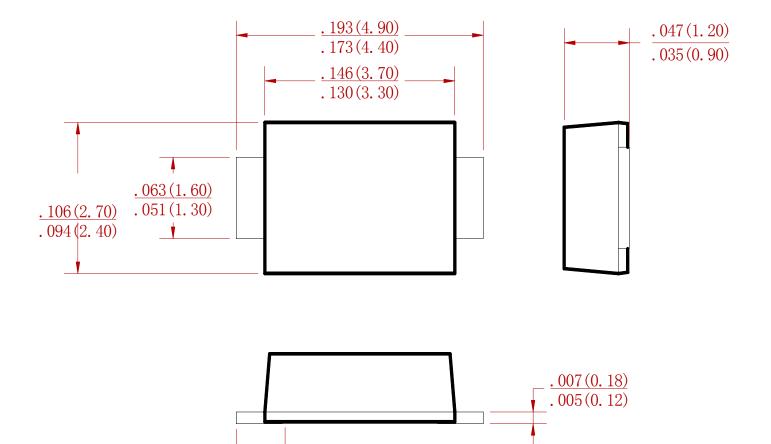


FIG.5 - TYPICAL REVERSE





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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