

## DC COMPONENTS CO., LTD.

#### RECTIFIER SPECIALISTS

SS52F THRU SS520F

# TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 200 Volts CURRENT - 5.0 Amperes

#### **FEATURES**

- \* Ideal for surface mounted applications
- \* Glass passivated junction
- \* Low leakage current
- \* Low power loss
- \* High efficiency

#### MECHANICAL DATA

\* Case: Molded plastic

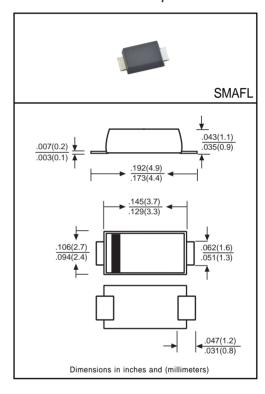
\* Epoxy: UL 94V-0 rate flame retardant \* Terminals: Solder plated solderable per MIL-STD-750, Method 2026

\* Polarity: As marked \* Mounting position: Any \* Weight: 0.03 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



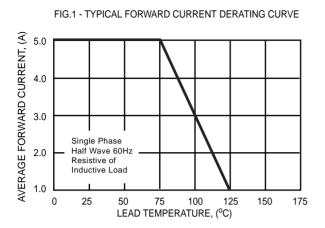
		SYMBOL	SS52F	SS54F	SS56F	SS58F	SS510F	SS512F	SS515F	SS520F	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	40	60	80	100	120	150	200	Volts
Maximum RMS Voltage		VRMS	14	28	42	56	70	84	105	140	Volts
Maximum DC Blocking Voltage		VDC	20	40	60	80	100	120	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature at T <sub>A</sub> = 75 °C		lo	5.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150								Amps
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	0.45	0.55	0	.70	0.85			Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C @TA = 100°C	lR	1.0 50							mAmps	
Typical Thermal Resistance (Note 1)		RθJA	45								°C/W
Typical Junction Capacitance (Note 2)		Сл	8	800 500						pF	
Operating Temperature Range		TJ	-55 to +125								٥C
Storage Temperature Range		Тѕтс	-55 to +150								۰C

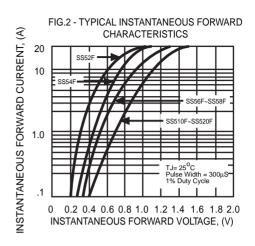
NOTES : 1. Thermal Resistance (Junction to Ambient)

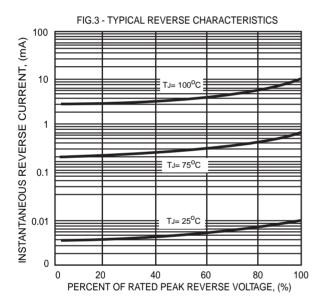
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. P.C.B. mounted with 0.5x0.5"(12.7x12.7mm<sup>2</sup>) copper pad area.

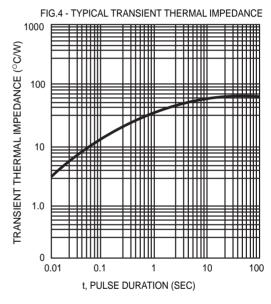
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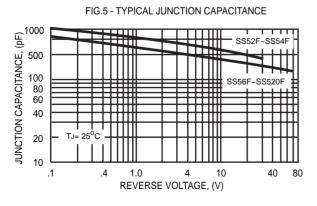
### RATING AND CHARACTERISTIC CURVES (SS52F THRU SS520F)

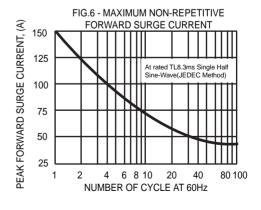












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