



SS52 THRU SS5200

Surface Mount Schottky Rectifiers

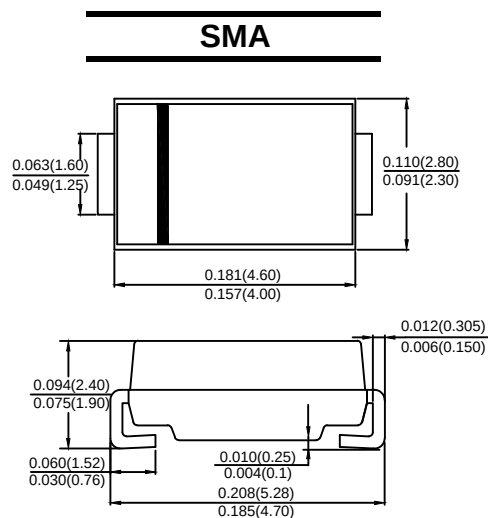
FEATURES

- Low profile package
- Low power losses, high efficiency
- Easy to pick and place
- High forward surge capability
- High temperature soldering : 260°C/10 seconds at terminals
- Lead free in comply with EU ROHS 2011/65/EU directives



Mechanical Data

- Case : SMA
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Cathode line denotes the cathode end
- Mounting Position : Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS	Symbols	SS52	SS54	SS56	SS58	SS510	SS5150	SS5200	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	150	200	V
Maximum RMS Bridge Input Voltage	V _{RMS}	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I _(AV)	5							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	120							A
Maximum Forward Voltage at 5A	V _F	0.55		0.70	0.85		0.95		V
Maximum DC Reverse Current T _A =25°C	I _R	0.2			0.1				mA
at Rated DC Blocking Voltage T _A =100°C		10			5				mA
Typical Thermal Resistance	R _{θJA}	60							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

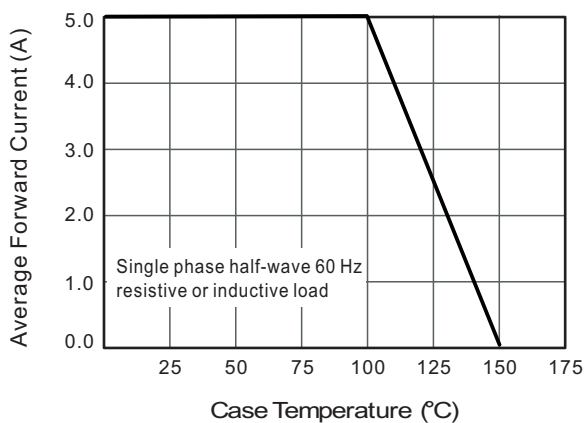
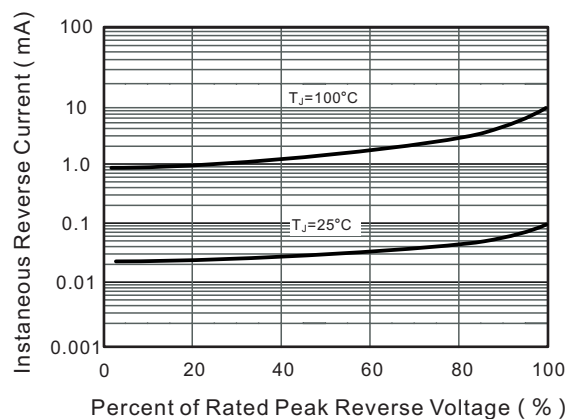


Fig.2 Typical Reverse Characteristics



$T_j=25^\circ\text{C}$

Fig.3 Typical Forward Characteristics

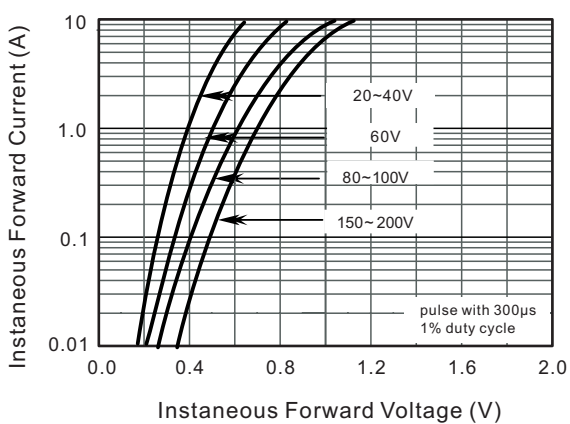
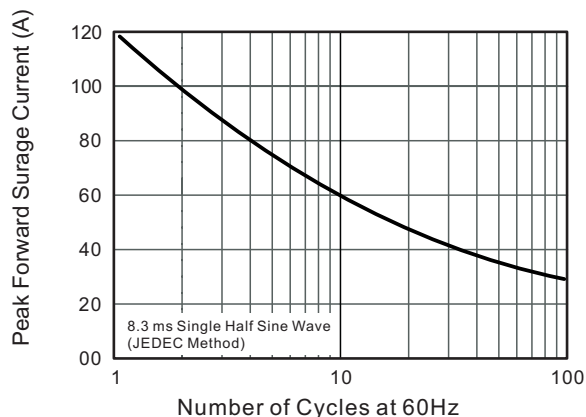


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



The recommended mounting pad size(SMA)

