



SS1040 THRU SS10200

Surface Mount Schottky Rectifier

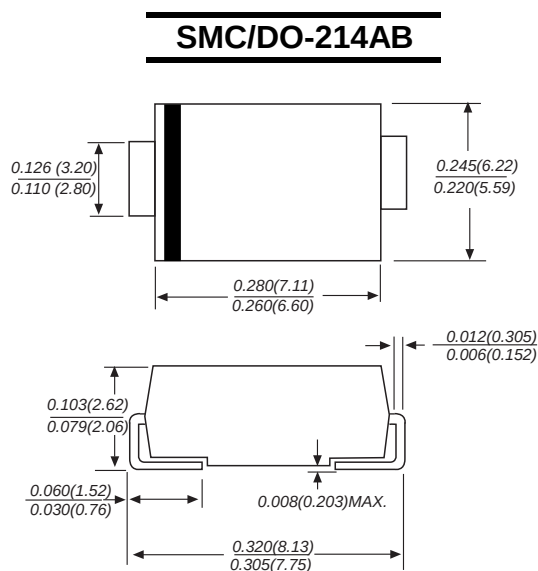
FEATURES

- 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** : SMC
- **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	SS1040	SS1045	SS1060	SS1080	SS10100	SS10150	SS10200	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	31.5	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I(AV)	10							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150							A
Maximum Forward Voltage at 10A	V _F	0.55	0.75	0.85	0.95	V			
Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=100°C	I _R	0.2 20			0.1 10				mA
Typical Thermal Resistance	RθJA	65							°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

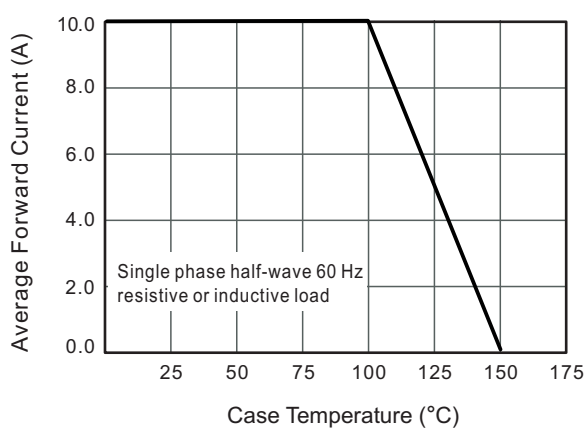


Fig.2 Typical Reverse Characteristics

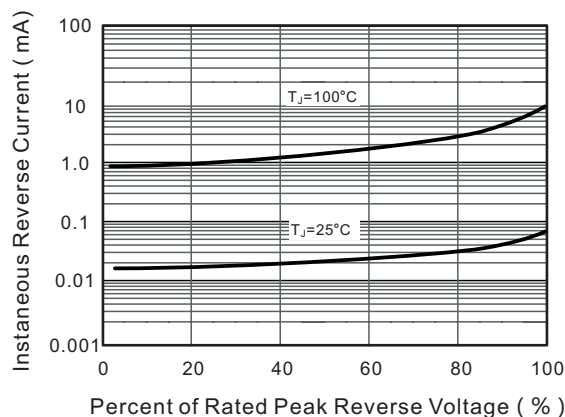


Fig.3 Typical Forward Characteristic

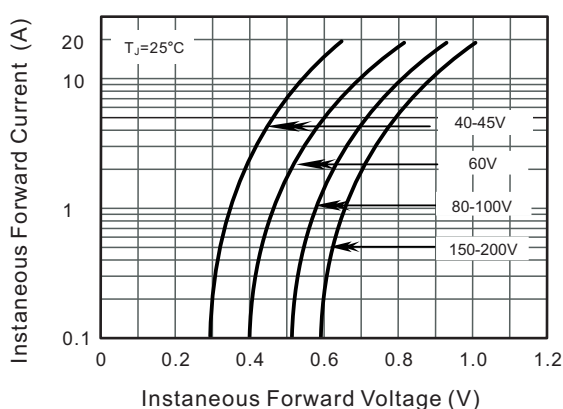
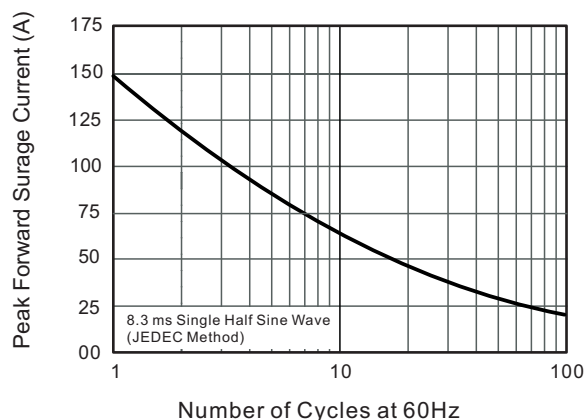


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



The recommended mounting pad size(SMC)

