



DATA SHEET SS12 THRU SS120

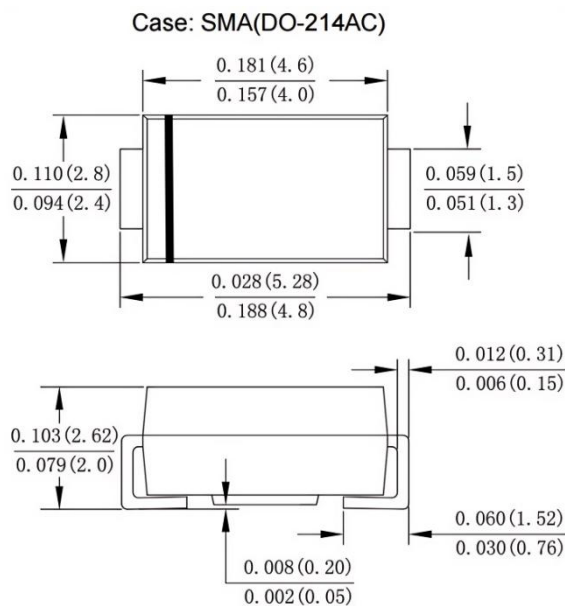
1.0 AMP Surface Mount Schottky Barrier Rectifier

■ FEATURES

- * Schottky Brrier Chip
- * Low Power Loss,High Efficiency
- * Ideally Suited for Automatic Assembly
- * Surge Overload Rating to 50A Peak

■ MECHANICAL DATA

- * Case: Molded plastic SMA
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any
- * Making: Type Number



■ ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

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

TYPE NUMBER		SYMBOLS	SS 12	SS 13	SS 14	SS 145	SS 15	SS 16	SS 18	SS 110	SS 115	SS 120	UNIT
Maximum Repetitive Peak Reverse Voltage		VRRM	20	30	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage		VRMS	14	21	28	31	35	42	56	70	105	140	V
Maximum DC Blocking Voltage		VDC	20	30	40	45	50	60	80	100	150	200	V
Maximum Average Forward Rectified - Current TL=100℃		IF(AV)	1.0										A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	30										A
Rating for fusing (t<8.3ms)		I²t	3.74										A²s
Maximum Instantaneous Forward Voltage @IF=1.0A		VFM	0.55				0.7		0.85		0.92		V
Maximum DC Reverse Current at rated	Ta=25℃	IR	0.1					0.05					mA
DC Blocking Voltage per element	Ta=100℃		10					5					
Typical Thermal Resistance(Note1)		RθJA	75										℃/W
Diode junction capacitance		CJ	35					20					pF
Operating Junction Temperature		TJ	-55 to +150										℃
Storage Temperature Range		TSTG	-55 to +150										℃

NOTES:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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■ RATING AND SHARACTERISTIC CURVES

Fig. 1 Forward Current Derating Curve

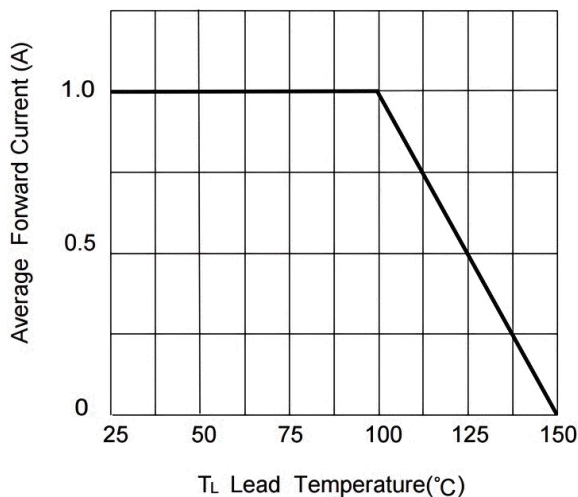


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

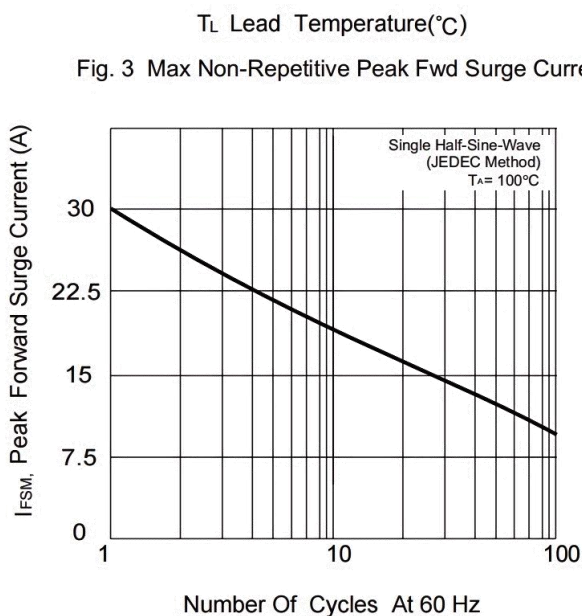


Fig.5 Mounting PAD Layout

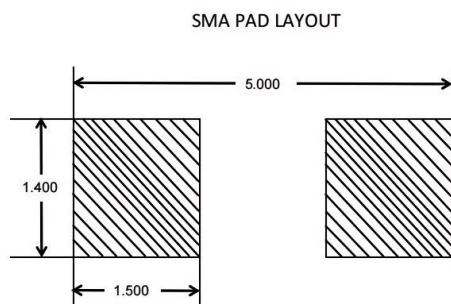


Fig. 2 Typ. Forward Characteristics

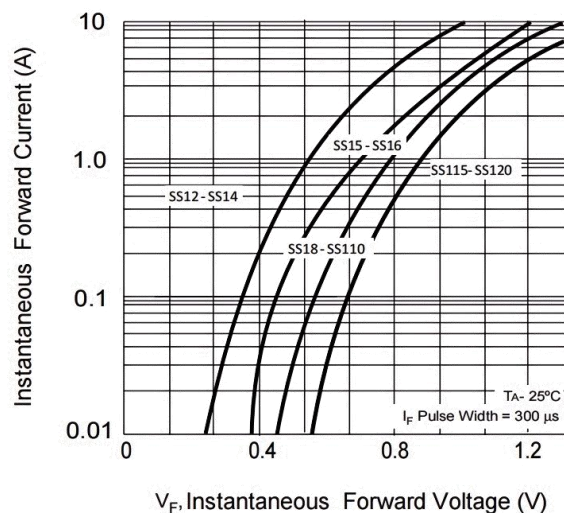


Fig.4 Typical Reverse Characteristics (per element)

