

SHANGHAI SUNRISE ELECTRONICS CO., LTD.

SS12 THRU SS16

SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIER

TECHNICAL SPECIFICATION

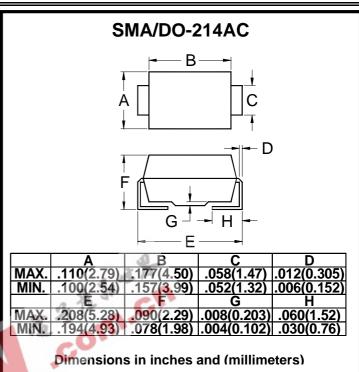
VOLTAGE: 20 TO 60V CURRENT: 1.0A

FEATURES

- Ideal for surface mount pick and place application
- Low profile package
- Low power loss, high efficiency
- High current capability, low V_F
- High surge capability
- High temperature soldering guaranteed: 260°C/10sec/at terminal

MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Color band denotes cathode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	SS12	SS13	SS14	SS15	SS16	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current		1.0					А
(T _L =110°C)	I _{F(AV)}						
Peak Forward Surge Current (8.3ms single	I _{FSM} 30						Α
half sine-wave superimposed on rated load)	'FSIVI						
Maximum Instantaneous Forward Voltage (at rated forward current)	V_{F}	0.5 0.7				.7	V
Maximum DC Reverse Current T _a =25°C	I _R	0.5					mΑ
(at rated DC blocking voltage) T _a =100°C	'R	10.0					mA
Typical Junction Capacitance (Note 1)	C_{J}	110					pF
Typical Thermal Resistance (Note 2)	$R_{\theta}(ja)$	20					°C/W
Storage and Operation Junction Temperature	T_{STG}, T_{J}	-65 to +150					°C
Note:							

- 1.Measured at 1.0 MHz and applied voltage of 4.0V_{dc}
- 2. Thermal resistance from junction to terminal mounted on 5×5mm copper pad area