

SHANGHAI SUNRISE ELECTRONICS CO., LTD.

SK12 THRU SK16

SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIER

TECHNICAL SPECIFICATION

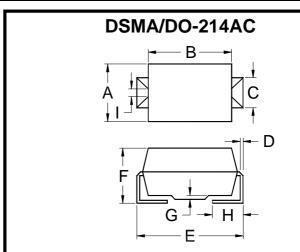
VOLTAGE: 20 TO 60V CURRENT: 1.0A

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
- Open junction chip, silastic passivated
- 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



	Α	В	В		С	D		
MAX.	.110(2.79	9) .177(4	4.50)	.075	5(1.90)	.012(0.305)		
MIN.	.100(2.54	4) .157(3	3.99)	.052	2(1.32)	.006(0.152)		
	E	F		G	Н			
MAX.	.208(5.28)	.090(2.29)	.008(0.203)	.060(1.5	2) .035(0.88)		
MIN.	.194(4.93)	.078(1.98)	.004(0.102)	.030(0.7	(6) .027(0.68)		

Dimensions in inches and (millimeters)

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%)

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RATINGS	SYMBOL	SK12	SK13	SK14	SK15	SK16	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	I _{F(AV)}		А				
(T _L =110°C)		1.0					
Peak Forward Surge Current (8.3ms single	I _{FSM}	30					Α
half sine-wave superimposed on rated load)							
Maximum Instantaneous Forward Voltage	V_{F}	0.5			0.7		V
(at rated forward current)		0.0					Ů
Maximum DC Reverse Current T _a =25°C	I _R	0.5					mΑ
(at rated DC blocking voltage) T _a =100°C		10.0					mA
Typical Junction Capacitance (Note 1)	C_J		pF				
Typical Thermal Resistance (Note 2)	R _θ (ja)		°C/W				
Storage and Operation Junction Temperature	T_{STG},T_{J}		°C				
Noto:							

- 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