

# SCHOTTKY BARRIER RECIFITERS

## **PRODUCT SUMMARY**

Surface Mount Low Reverse Voltage 20 to 60 volts Forward Current 1.0 Ampere

#### **FEATURES**

For surface mounted application Metal-Semiconductor junction with guardring Epitaxial construction Very low forward voltage drop High current capability Plastic material has UL flammability classification 94V-0 wheeling, and polarity protection applications

## **MECHANCIAL DATA**

Cases: JEDEC DO-214AC(SMA) molded plastic Polarity : Indicated by cathode band Weight : 0.002 ounce, 0.064 gram



#### Pb-free; RoHS-compliant

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

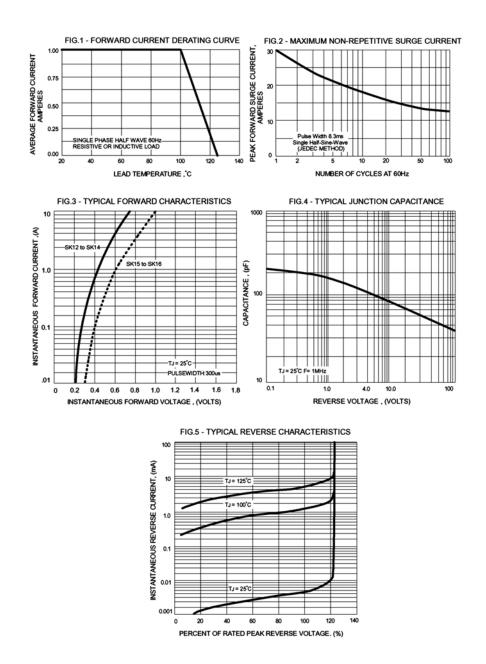
Parameter	Symbols	SK12	SK13	SK14	SK15	SK16	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	Volts
Maximum average forward rectified current @T_=100°C	I <sub>(AV)</sub>	1.0					Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30.0					Amps
Maximum forward voltage at 1.0A DC	V <sub>F</sub>	0.50 0.70			Volts		
Maximum DC reverse current @T_=25°C at rated DC blocking voltage @T_=100°C	l <sub>R</sub>	0.5 10.0					mA
Typical junction capacitance (Note 1)	C	110					pF
Typical thermal resistance (Note 2)	R <sub>eJL</sub>	20					°C/W
Operating junction temperature range	Tj	-55 to +125					°C
Storage temperature range	T <sub>STG</sub>	-55 to +150					°C

 Notes:
 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

 2. Thermal Resistance Junction to Lead.



# **RATINGS AND CHARACTERISTIC CURVES**



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