

# **Schottky Barrier Rectifiers**

DO-214AC (SMA)

.064(1.63)

#### PRODUCT SUMMARY

Surface Mount Reverse Voltage 20 to 60 Volts Forward Current 2.0 Amperes



## **FEATURES**

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

#### **MECANICAL DATA**

Case: JEDEC DO-214AC(SMA) molded plastic

Polarity: Indicated by cathode band Weight: 0.002 ounce, 0.064 gram

# .088(2.25) .075(1.90) .059(1.50) .031(0.80) .205(5.20) .189(4.80)

Dimensions in inches and (millimeters)

# Pö

Pb-free; RoHS-compliant



# **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

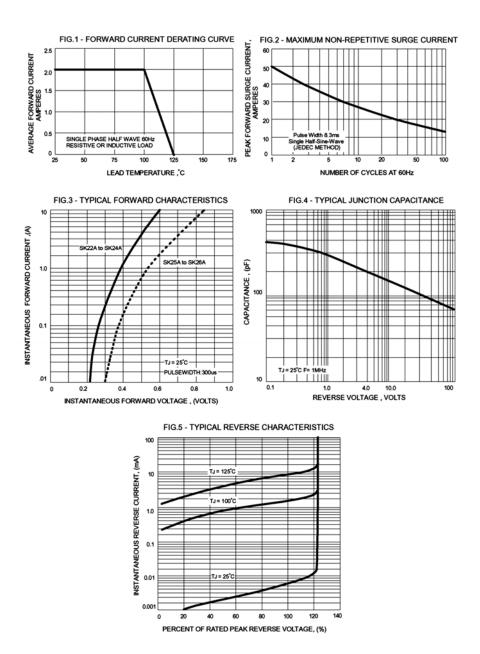
For capacitive load, derate current by 20%

Parameter	Symbols	SK22A	SK23A	SK24A	SK25A	SK26A	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>	2.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	FSM	50.0					Amps
Maximum forward voltage at 2.0A 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	I <sub>R</sub>	0.5 20					mA
Typical junction capacitance (Note1)	C <sub>J</sub>	200					pF
Typical thermal resistance (Note 2)	R <sub>eJL</sub>	15					°C/W
Operating junction temperature range	T <sub>J</sub>	-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



Information furnished by Silicon Standard Corporation is believed to be accurate and reliable. However, Silicon Standard Corporation makes no guarantee or warranty, expressed or implied, as to the reliability, accuracy, timeliness or completeness of such information and assumes no responsibility for its use, or for infringement of any patent or other intellectual property rights of third parties that may result from its use. Silicon Standard reserves the right to make changes as it deems necessary to any products described herein for any reason, including without limitation enhancement in reliability, functionality or design. No license is granted, whether expressly or by implication, in relation to the use of any products described herein or to the use of any information provided herein, under any patent or other intellectual property rights of Silicon Standard Corporation or any third parties.