



## SS22 THRU SS26

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### TECHNICAL SPECIFICATION

**VOLTAGE: 20 TO 60V CURRENT: 2.0A**

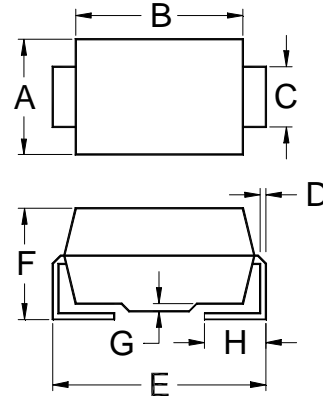
#### FEATURES

- 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

#### SMB/DO-214AA



	A	B	C	D
MAX.	.155(3.94)	.180(4.57)	.083(2.11)	.012(0.305)
MIN.	.130(3.30)	.160(4.06)	.077(1.96)	.006(0.152)
	E	F	G	H
MAX.	.220(5.59)	.096(2.44)	.008(0.203)	.060(1.52)
MIN.	.205(5.21)	.084(2.13)	.004(0.102)	.030(0.76)

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%)

RATINGS	SYMBOL	SS22	SS23	SS24	SS25	SS26	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Rectified Current (T <sub>L</sub> =100°C)	I <sub>F(AV)</sub>	2.0					A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I <sub>FSM</sub>	50					A
Maximum Instantaneous Forward Voltage (at rated forward current)	V <sub>F</sub>	0.5			0.7		V
Maximum DC Reverse Current T <sub>a</sub> =25°C (at rated DC blocking voltage) T <sub>a</sub> =100°C	I <sub>R</sub>	0.5 10.0					mA mA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	200					pF
Typical Thermal Resistance (Note 2)	R <sub>θ(ja)</sub>	25					°C/W
Storage and Operation Junction Temperature	T <sub>STG</sub> , T <sub>J</sub>	-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 5x5mm copper pad area