



**SS22 THRU SS26**

**SURFACE MOUNT SCHOTTKY  
BARRIER RECTIFIER**

**TECHNICAL  
SPECIFICATION**

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

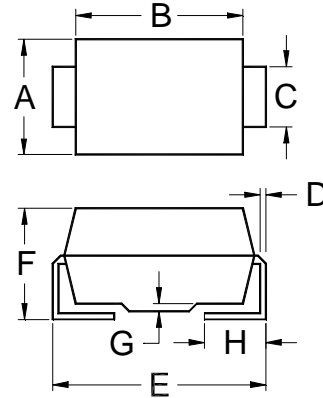
**FEATURES**

- 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	$V_{RRM}$	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 ( $T_L=100^\circ\text{C}$ )	$I_{F(AV)}$	2.0					A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	$I_{FSM}$	50					A
Maximum Instantaneous Forward Voltage (at rated forward current)	$V_F$	0.5		0.7			V
Maximum DC Reverse Current ( $T_a=25^\circ\text{C}$ )	$I_R$	0.5					mA
(at rated DC blocking voltage) ( $T_a=100^\circ\text{C}$ )		10.0					mA
Typical Junction Capacitance (Note 1)	$C_J$	200					pF
Typical Thermal Resistance (Note 2)	$R_{\theta(ja)}$	25					°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<sub>dc</sub>
2. Thermal resistance from junction to terminal mounted on 5x5mm copper pad area