



## SS32 THRU SS36

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

TECHNICAL  
SPECIFICATION

**VOLTAGE: 20 TO 60V CURRENT: 3.0A**

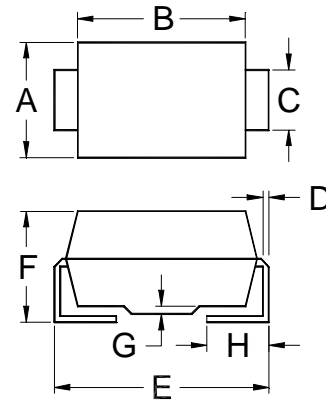
#### FEATURES

- 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-0 recognized flame retardant epoxy
- Polarity: Color band denotes cathode

#### SMC/DO-214AB



	A	B	C	D
MAX.	.245(6.22)	.280(7.11)	.124(3.15)	.012(0.305)
MIN.	.220(5.59)	.260(6.60)	.108(2.75)	.006(0.152)
	E	F	G	H
MAX.	.320(8.13)	.096(2.44)	.008(0.203)	.060(1.52)
MIN.	.305(7.75)	.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	SS32	SS33	SS34	SS35	SS36	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 ( $T_L=100^\circ\text{C}$ )	$I_{F(AV)}$	3.0					A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	$I_{FSM}$	100					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) ( $T_a=100^\circ\text{C}$ )		20.0					mA
Typical Junction Capacitance (Note 1)	$C_J$	300					pF
Typical Thermal Resistance (Note 2)	$R_{\theta(ja)}$	15					°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