TIGER ELECTRONIC CO.,LTD

SS32 THRU SS36

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

TECHNICAL SPECIFICATION

VOLTAGE: 20 TO 60V CURRENT: 3.0A

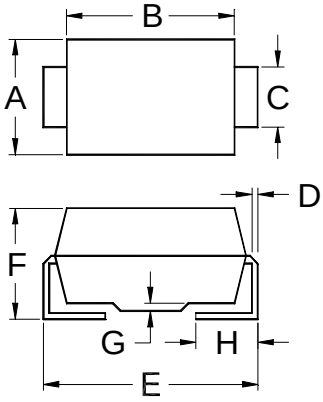
FEATURES

- 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-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	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°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°C	I_R	0.5					mA
(at rated DC blocking voltage) T_a=100°C		20.0					mA
Typical Junction Capacitance (Note 1)	C_J	300					pF
Typical Thermal Resistance (Note 2)	R_θ(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_{dc}

2.Thermal resistance from junction to terminal mounted on 5×5mm copper pad area