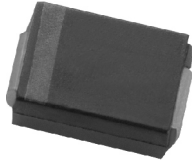


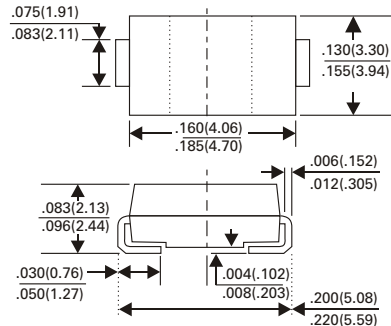
# SK22B thru SK210B

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 100 VOLTS CURRENT - 2.0 AMPERES



SMB/DO-214AA



Dimensions in inches and (millimeters)

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mount applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High surge capability
- For use in low voltage high frequency inverters, free wheeling. and polarity protection applications
- High temperature soldering : 260°C/10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHs environment substance directive request

### MECHANICAL DATA

Case : JEDEC DO-214AA molded plastic  
 Terminals : Solder plated, solderable per MIL-STD-750, Method 2026  
 Polarity : Color band denotes positive end (cathode)  
 Standard Package : 12mm tape (EIA STD EIA-481)  
 Weight : 0.003 ounce, 0.093gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified  
 Resistive or inductive load

	SYMBOL	SK22B	SK23B	SK24B	SK25B	SK26B	SK28B	SK29B	SK210B	UNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at $T_L$ (Figure 1)	$I_{(AV)}$	2.0								Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	50								Amps
Maximum Instantaneous Forward Voltage at 2.0A	$V_F$	0.5		0.7		0.85			Volts	
Maximum DC Reverse Current (NOTE 1) $T_A=25^\circ C$ at Rated DC Blocking Voltage $T_A=100^\circ C$	$I_R$					0.5				mA
Maximum Thermal Resistance (NOTE 2)	$R_{\theta JA}$					75				°C / W
	$R_{\theta JL}$					17				
Typical Junction Capacitance (NOTE 3)	$C_J$	45				30				pF
Storage and Operating Temperature Range	$T_J$ $T_{STG}$	-55 to + 150								°C

NOTES :

1. Pulse test with  $p_w=300 \mu S$ , 2% duty cycle
2. Mounted on P.C.B with 8.0mm<sup>2</sup> (0.13mm thick) copper pad areas

# SK22B thru SK210B

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### RATING AND CHARACTERISTICS CURVES SK22B THRU SK210B

