



## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 100 Volts FORWARD CURRENT - 1.0 Amperes

**SMB** 

## **FEATURES**

- For surface mounted applications
- Metal-Semiconductor junction with guarding
- Epitaxial construction
- Very low forward votage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

## **MECHANICAL DATA**

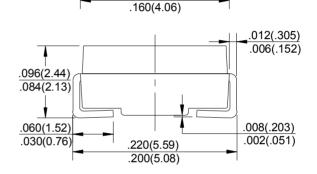
●Case: Molded Plastic

Polarity:Color band denotes cathodeWeight: 0.003 ounces,0.093 grams

Mounting position: Any



.185(4.70)



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

SYMBOL	SS12B	SS13B	SS14B	SS15B	SS16B	SS18B	SS110B	UNIT
VRRM	20	30	40	50	60	80	100	V
VRMS	14	21	28	35	42	56	70	٧
VDC	20	30	40	50	60	80	100	٧
I(AV)	1.0							А
lғsм	40							Α
VF	0.45	0.55	0.6	0.70 0.85			85	V
lR	1.0 10							mA
СJ	110							pF
Røjl	20							°C/W
TJ	-55 to + 150							$^{\circ}$
Тѕтс	-55 to + 150							$^{\circ}$
	VRRM VRMS VDC I(AV) IFSM VF IR CJ RØJL TJ	VRRM 20 VRMS 14 VDC 20 I(AV) IFSM VF 0.45 IR CJ Rejl TJ	VRRM 20 30 VRMS 14 21 VDC 20 30 I(AV) IFSM VF 0.45 0.55 IR CJ Rejl TJ	VRRM 20 30 40 VRMS 14 21 28 VDC 20 30 40  I(AV)  IFSM  VF 0.45 0.55 0.6  IR  CJ  Rejl  TJ	VRRM         20         30         40         50           VRMS         14         21         28         35           VDC         20         30         40         50           I(AV)         1.0         1.0           IFSM         40         40           VF         0.45         0.55         0.6         0.5           IR         10         10         10           CJ         110         110         10           RBJL         20         -55 to + 150	VRRM         20         30         40         50         60           VRMS         14         21         28         35         42           VDC         20         30         40         50         60           I(AV)         1.0           IFSM         40           VF         0.45         0.55         0.6         0.70           IR         10           CJ         110           ReJL         20           TJ         -55 to + 150	VRRM         20         30         40         50         60         80           VRMS         14         21         28         35         42         56           VDC         20         30         40         50         60         80           I(AV)         1.0         40         40         40         40         40         50         60         80         60         80         60         80         60         80         80         60         60         60         80         60         60         80         60         60         60         60         60         60         60         <	VRRM         20         30         40         50         60         80         100           VRMS         14         21         28         35         42         56         70           VDC         20         30         40         50         60         80         100           I(AV)         1.0         40         40         40         50         60         80         100           VF         0.45         0.55         0.6         0.70         0.85         0.85           IR         10         10         10         10         0.85

NOTES:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance junction to lead.



