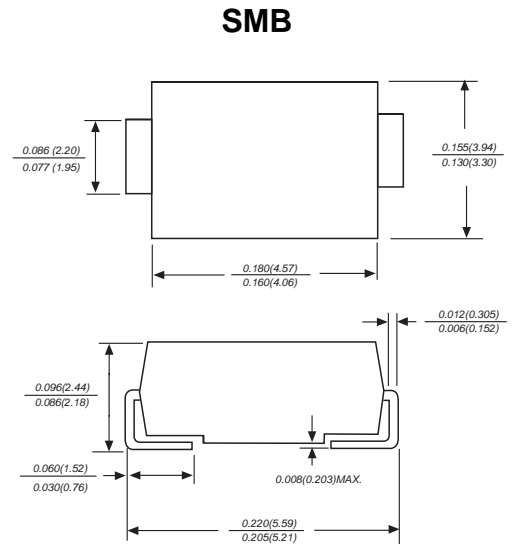


## Schottky Rectifier

### ■ Features

- $I_o$  5.0A
- $V_{RRM}$  20V-200V
- High surge current capability
- ◇ UL Recognized File # E-326243
- ◇ For surface mounted application
- ◇ Metal to silicon rectifier, majority carrier conduction
- ◇ Low forward voltage drop
- ◇ Easy pick and place
- ◇ High surge current capability
- ◇ Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ◇ Epitaxial construction
- ◇ High temperature soldering : 260°C/10 seconds at terminals

### ■ Outline Dimensions



### ■ Applications

- Rectifier

### ■ Mechanical Data

- ◇ Case: Molded plastic
- ◇ Terminals: Pure tin plated, lead free
- ◇ Polarity: Indicated by cathode band
- ◇ Packaging: 16mm tape per EIA Std RS-481
- ◇ Weight: 0.21 gram

### ■ Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	Symbol	SS 52B	SS 53B	SS 54B	SS 55B	SS 56B	SS 59B	SS 510B	SS 515B	SS 520B	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	90	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	63	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	90	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	5									A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	150									A
Maximum Instantaneous Forward Voltage (Note 1) @ 5 A	$V_F$	0.45	0.55	0.70	0.85						V
Maximum Reverse Current @ Rated VR $T_A=25\text{ }^\circ\text{C}$ $T_A=100\text{ }^\circ\text{C}$	$I_R$	0.5									mA
		20			10						
Typical Thermal Resistance	$R_{\theta JL}$	20									$^\circ\text{C/W}$
	$R_{\theta JA}$	55									
Operating Temperature Range	$T_J$	- 55 to + 125			- 55 to + 150						$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	- 55 to + 150									$^\circ\text{C}$

Note 1: Pluse Test with PW=300 usec, 1% Duty Cycle

## ■ Characteristics(Typical)

