

# SS22B~SS220B

## 2.0Amp Surface Mount Schottky Barrier Rectifiers



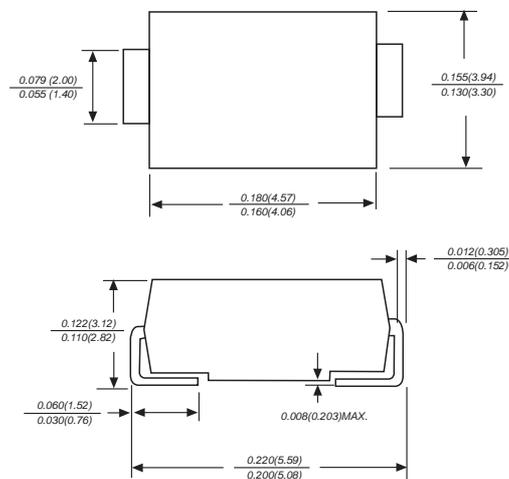
### Features

The plastic package carries Underwriters Laboratory  
 Flammability Classification 94V-0  
 For surface mounted applications  
 Metal silicon junction, majority carrier conduction  
 Low power loss, high efficiency  
 Built-in strain relief, ideal for automated placement  
 High forward surge current capability  
 High temperature soldering guaranteed:  
 260°C/10 seconds at terminals

### Mechanical Data

**Case:** JEDEC DO-214AA molded plastic body  
**Terminals:** Leads solderable per MIL-STD-750, Method 2026  
**Polarity:** Color band denotes cathode end  
**Mounting Position:** Any  
**Weight :** 0.005 ounce, 0.138 grams

SMB/DO-214AA



Dimensions in inches and (millimeters)

### Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SS 22B	SS 23B	SS 24B	SS 25B	SS 26B	SS 28B	SS 210B	SS 215B	SS 220B	UNITS	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	VOLTS	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	VOLTS	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	VOLTS	
Maximum average forward rectified current at $T_L$ (see fig.1)	$I_{(AV)}$	2.0									Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50.0									Amps	
Maximum instantaneous forward voltage at 2.0A	$V_F$	0.55			0.70		0.85		0.95		Volts	
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	$I_R$	0.5						0.2		mA		
Typical junction capacitance (NOTE 1)	$C_J$	220			180						pF	
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	75.0									$^\circ\text{C/W}$	
Operating junction temperature range	$T_J$	-65 to +125					-65 to +150					$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-65 to +150									$^\circ\text{C}$	

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

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### Ratings And Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

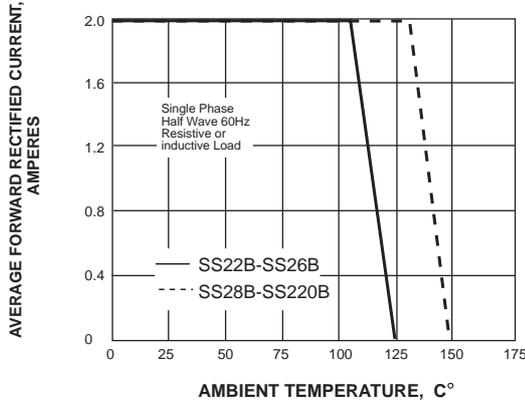


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

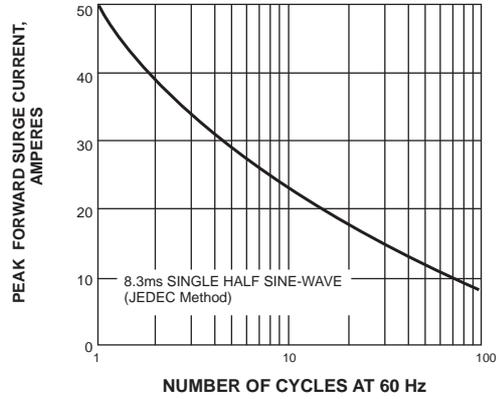


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

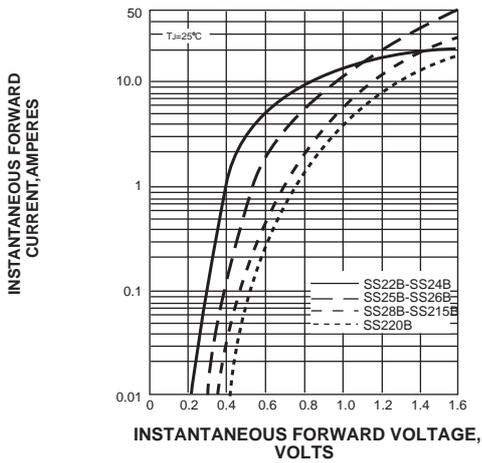


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

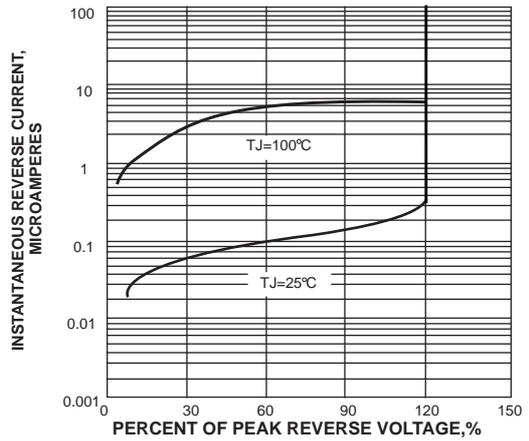


FIG. 5-TYPICAL JUNCTION CAPACITANCE

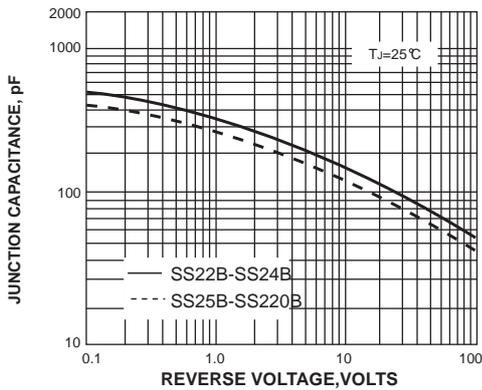


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

