

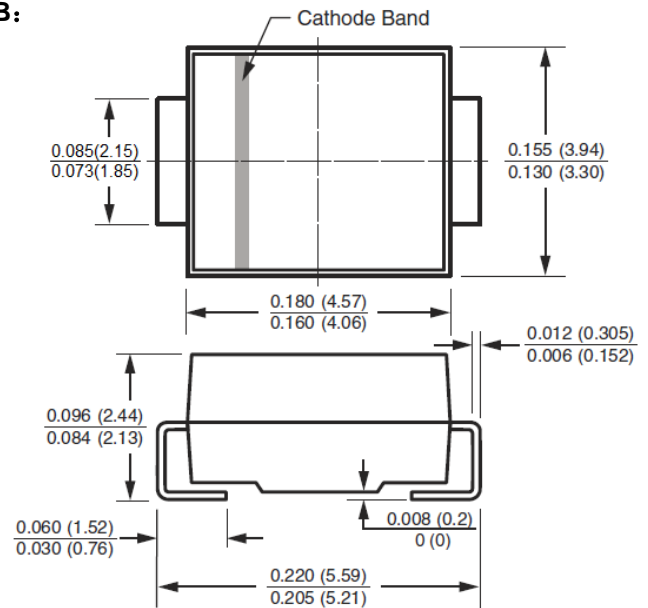
### Features

- \* 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



### Package Outline Dimensions in inches (millimeters)

#### SMB:



### 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

### Maximum Ratings and Electrical Characteristics

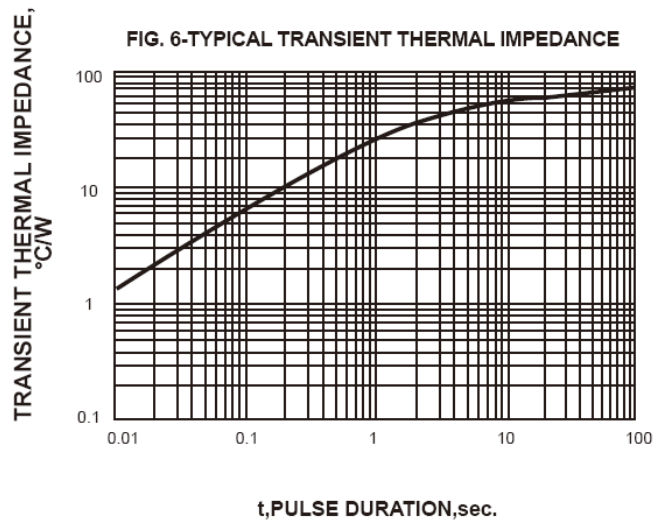
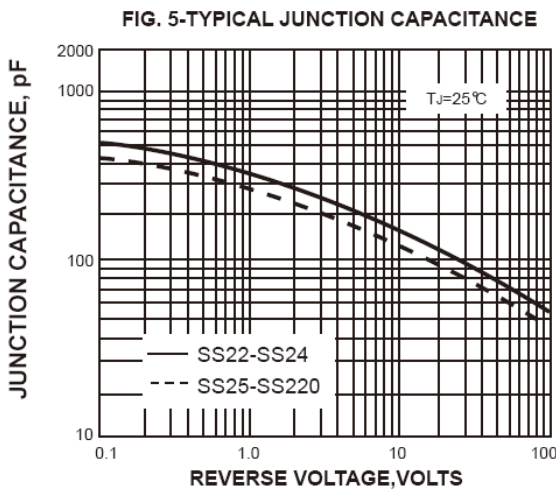
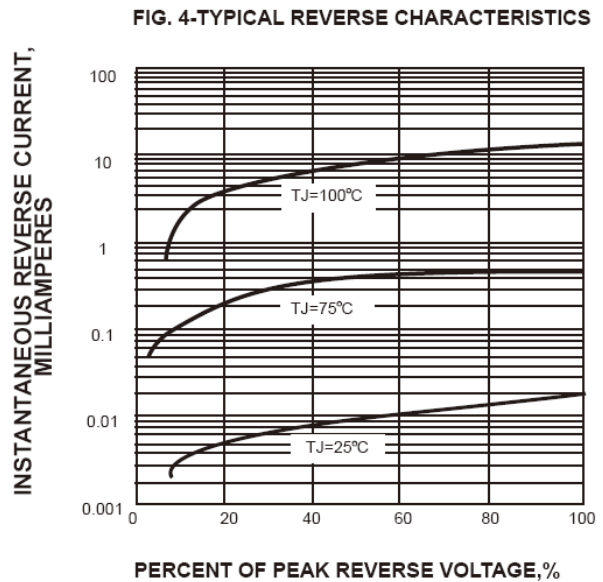
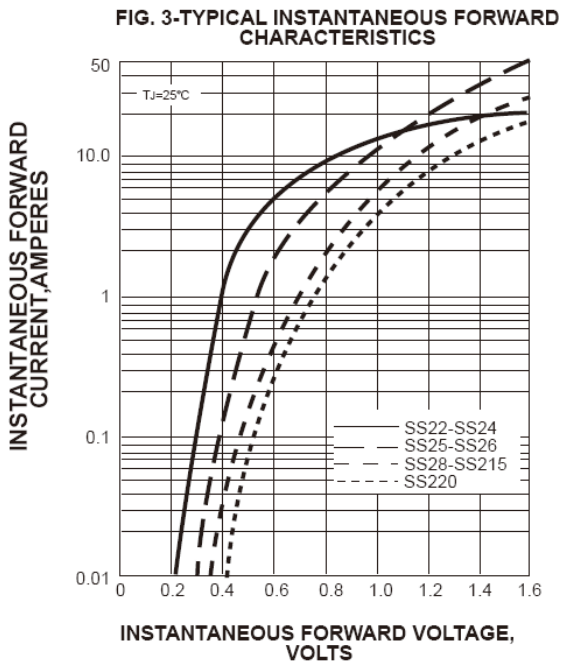
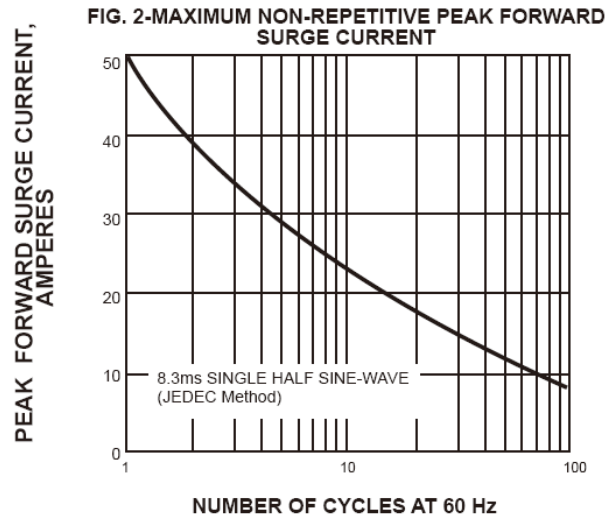
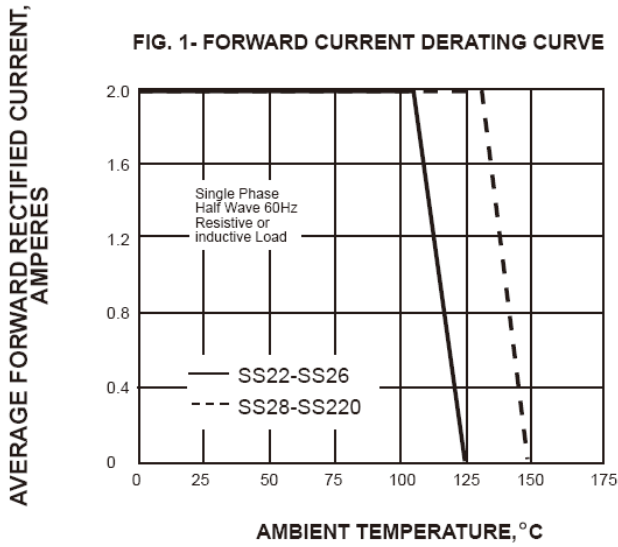
Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbols	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	Unit	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V	
Maximum D.C Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V	
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0									A	
Peak Forward Surge Current, 8.3ms single half sine-wave	$I_{FSM}$	50									A	
Maximum Instantaneous Forward Voltage at 2.0A(Note1)	$V_F$	0.55			0.70		0.85		0.95		V	
Maximum D.C Reverse Current @ $T_A=25^\circ\text{C}$ at Rated D.C Blocking Voltage @ $T_A=100^\circ\text{C}$	$I_R$	0.5							0.2		mA	
		10.0				5.0		2.0				
Typical Junction Capacitance(Note2)	$C_J$	220			180						pF	
Typical Thermal Resistance(Note3)	$R_{\theta JA}$	75									°C/W	
Operating junction temperature range	$T_J$	-50 to +125				-50 to +150						°C
Storage temperature range	$T_{STG}$	-50 to +150									°C	

NOTE: 1、 Pulse test:  $t_p=300\ \mu\text{s}$ , 2% duty cycle    2、 Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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

### Ratings and Characteristic Curves





**SS22 THRU SS220**  
*2.0 Amps. Surface Mount Schottky Barrier Rectifiers*

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**Ordering Information**

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Part No.	Package	Packing
SS22~SS220	SMB	3K/Reel