



# SS1020~SS10200

## 10.0Amp Schottky Barrier Rectifiers

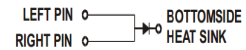
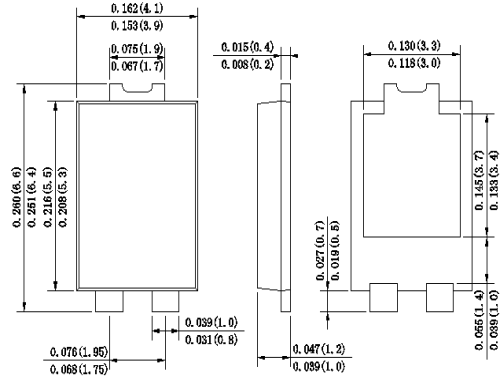
### Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

### Mechanical Data

- **Case** : Molded plastic body
- **Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity** : Polarity symbol marking on body
- **Mounting Position** : Any
- **Weight** : 0.003 ounce, 0.092 grams

TO-277



Dimensions in inches and (millimeters)

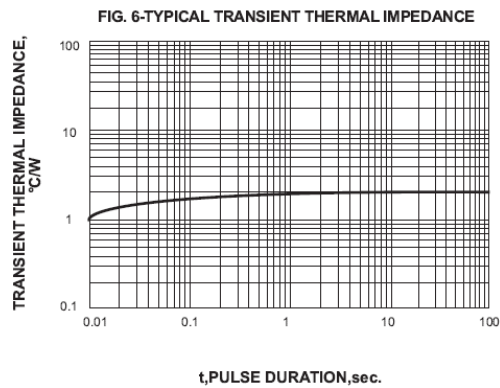
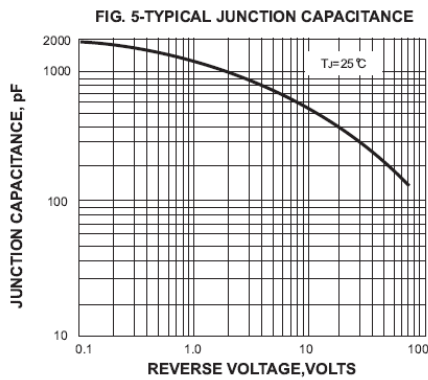
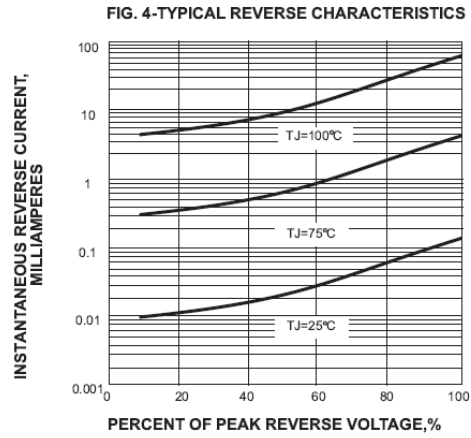
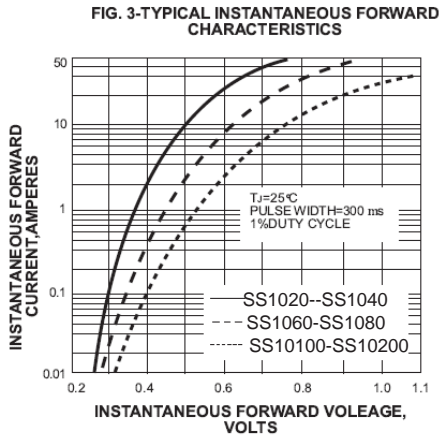
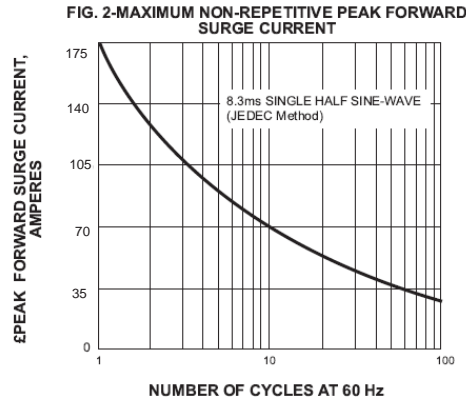
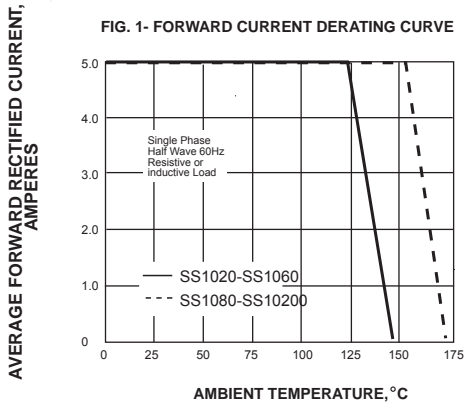
### Maximum Ratings And Electrical Characteristics

- 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%.

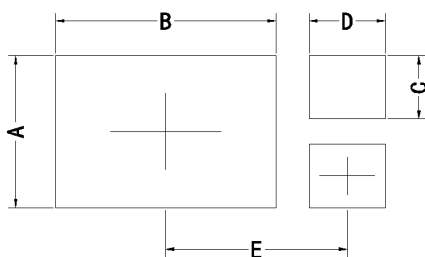
Parameter	SYMBOLS	SS1020	SS1040	SS1060	SS1080	SS10100	SS10150	SS10200	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	40	60	80	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	14	28	42	56	70	105	140	V
Maximum DC blocking voltage	$V_{DC}$	20	40	60	80	100	150	200	V
Maximum average forward rectified current at $T_L=100^\circ\text{C}$	$I_{(AV)}$	10.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	175.0							A
Maximum instantaneous forward voltage at 10.0A	$V_F$	0.55	0.70	0.85	0.95				V
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	$I_R$	0.5 50			0.05 10			mA	
Typical thermal resistance	$R_{QJA}$	60.0							$^\circ\text{C}/\text{W}$
Operating junction temperature range	$T_J$	-55 to +150			-55 to +175			$^\circ\text{C}$	
Storage temperature range	$T_{STG}$	-55 to +175							$^\circ\text{C}$



Ratings And Characteristic Curves



Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	3.60	0.142
B	5.35	0.211
C	1.50	0.059
D	1.85	0.073
E	4.30	0.169