



## SSCS1020TC THUR SSCS10200TC

### 10.0Amp Schottky Barrier Rectifiers

#### ● Features

- ✧ The plastic package carries Underwriters Laboratory
- ✧ Flammability Classification 94V-0
- ✧ Construction utilizes void-free molded plastic technique
- ✧ Low reverse leakage
- ✧ High forward surge current capability
- ✧ High temperature soldering guaranteed 260°C/10 seconds at terminals

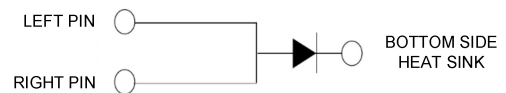
#### ● PIN configuration



**TO-277B**

#### ● 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



**Circuit Diagram**

#### ● Absolute maximum rating @T<sub>A</sub>=25°C

Parameter	Symbol	SSCS10							Unit
		20TC	40TC	60TC	80TC	100TC	150TC	200TC	
Maximum Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	80	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	10.0							A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	175.0							A
Max Instantaneous Forward Voltage at 10.0 A	V <sub>F</sub>	0.55		0.70	0.85		0.95		V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I <sub>R</sub>	0.5			0.05				mA
		50			10				
Typical Thermal Resistance	R <sub>QJA</sub>	60.0							°C/W
Operating Temperature	T <sub>J</sub>	-55 ~ +150							°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +150							°C



## ● Typical Performance Characteristics

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

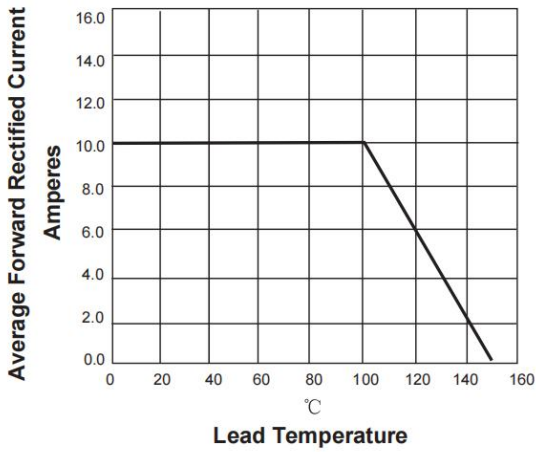


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

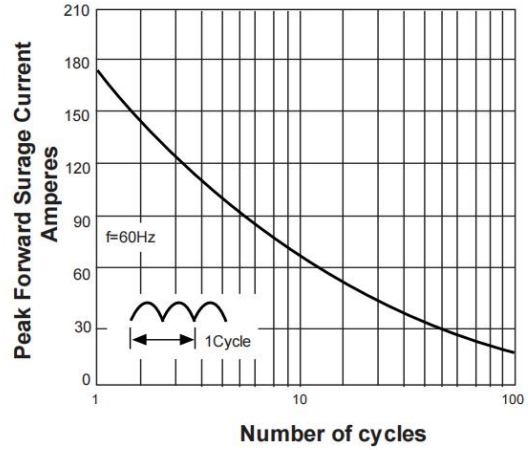


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

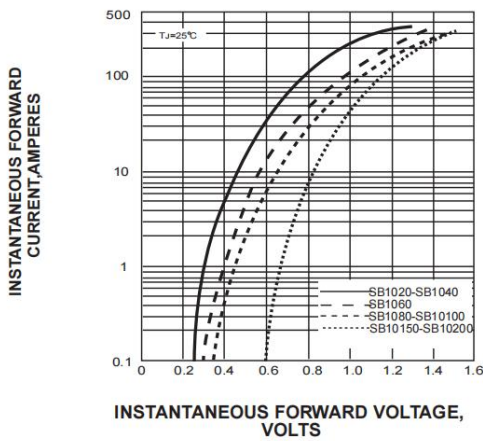
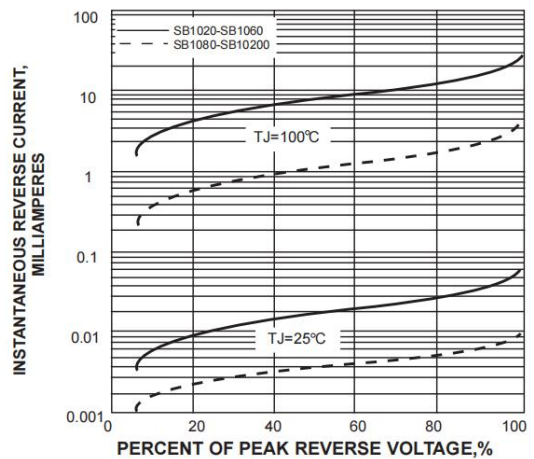


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



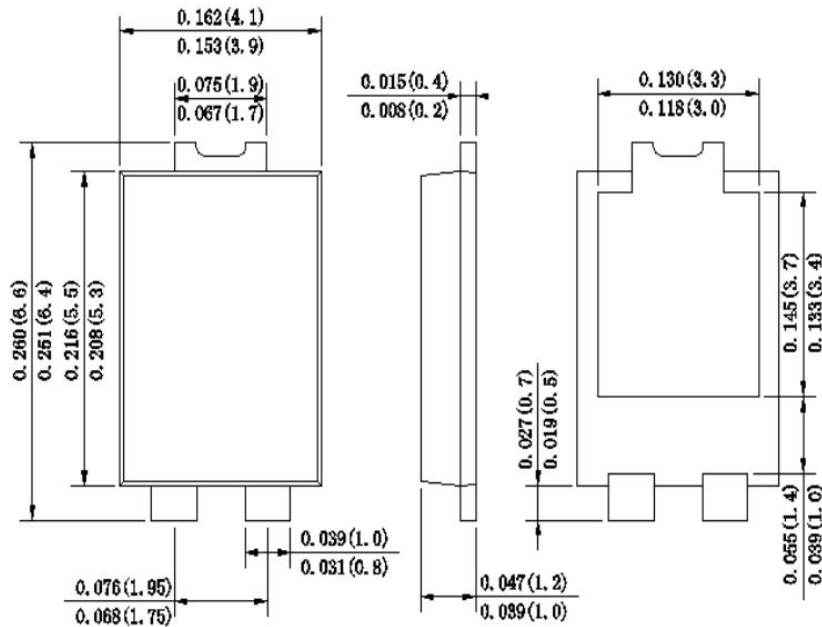


## ● Package Information

### Ordering Information

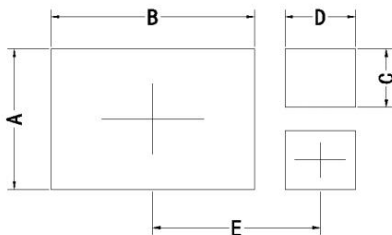
Device	Package	Marking	Qty per Reel	Reel Size
SSCS1020TC	TO-277B	SL1020	5000	13 Inch
SSCS1040TC	TO-277B	SL1040	5000	13 Inch
SSCS1060TC	TO-277B	SL1060	5000	13 Inch
SSCS1080TC	TO-277B	SL1080	5000	13 Inch
SSCS10100TC	TO-277B	SL10100	5000	13 Inch
SSCS10150TC	TO-277B	SL10150	5000	13 Inch
SSCS10200TC	TO-277B	SL10200	5000	13 Inch

### Mechanical Data



**Dimensions in inches and (millimeters)**

### Recommended Pad outline



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



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