

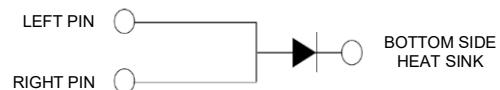
SSCSSS52TC THUR SSCSSS520TC
5.0Amp Schottky Barrier Rectifiers
● Features

- ❖ 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_A=25°C

Parameter	Symbol	SSCSSS							Unit					
		52TC	54TC	56TC	58TC	510TC	515TC	520TC						
Maximum Peak 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	I _{F(AV)}	5.0						A						
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	150.0						A						
Max Instantaneous Forward Voltage at 5.0 A	V _F	0.55		0.70		0.85		0.95	V					
Maximum DC Reverse Current T _A = 25 °C at Rated DC Blocking Voltage T _A = 125 °C	I _R	0.5			0.05			mA						
		50			10									
Typical Thermal Resistance	R _{QJA}	60.0						°C/W						
Operating Temperature	T _J	-55 ~ +150						°C						
Storage Temperature	T _{STG}	-55 ~ +150						°C						

- **Typical Performance Characteristics**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

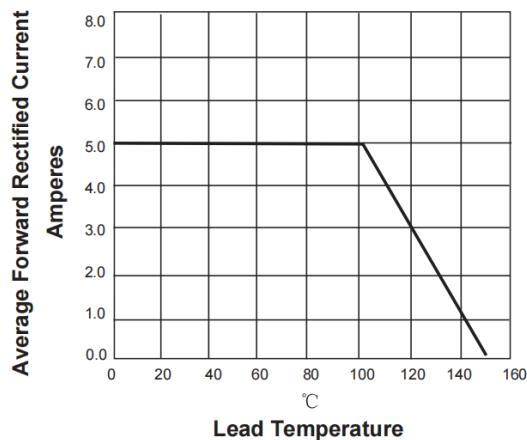


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

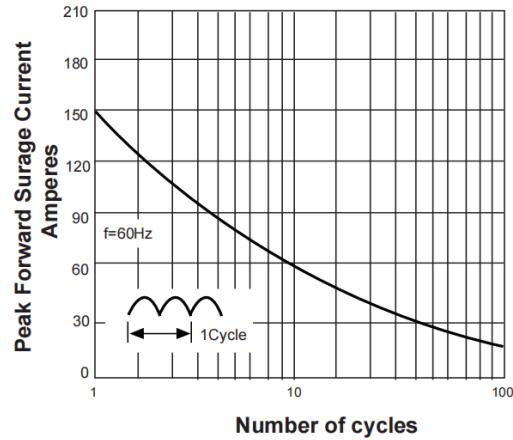


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

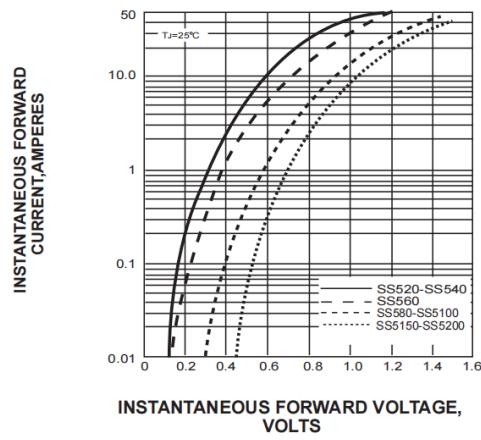
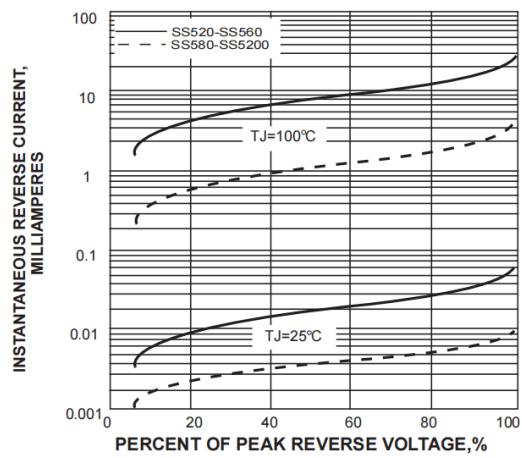


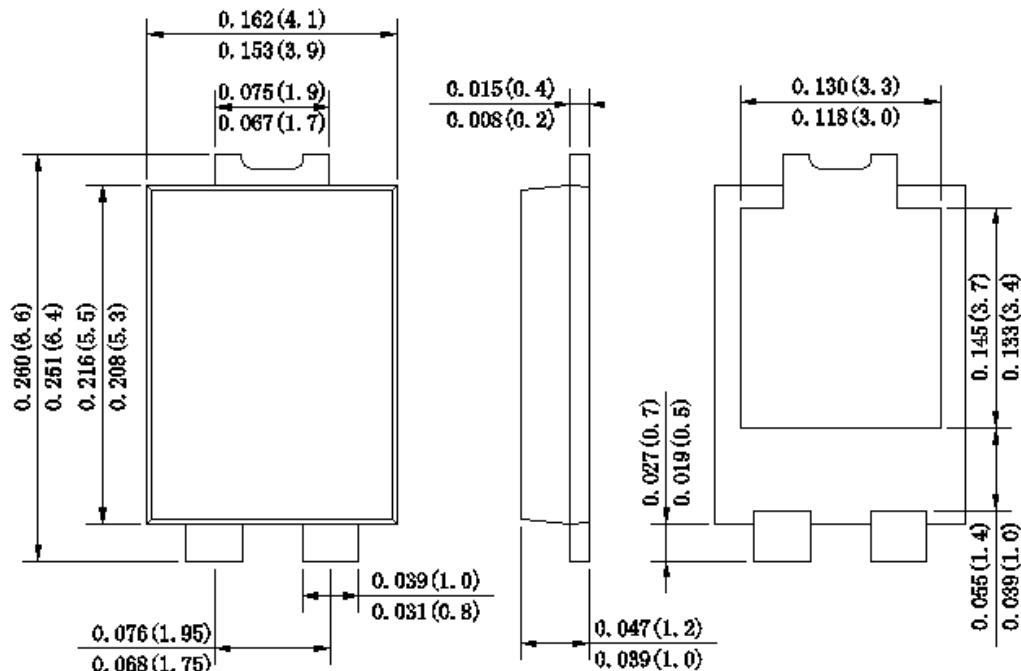
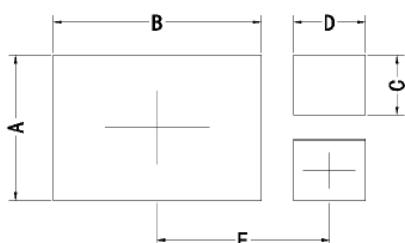
FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



- **Package Information**

Ordering Information

Device	Package	MARKING	Qty per Reel	Reel Size
SSCSSS52TC	TO-277B	SS52	5000	13 Inch
SSCSSS54TC	TO-277B	SS54	5000	13 Inch
SSCSSS56TC	TO-277B	SS56	5000	13 Inch
SSCSSS58TC	TO-277B	SS58	5000	13 Inch
SSCSSS510TC	TO-277B	SS510	5000	13 Inch
SSCSSS515TC	TO-277B	SS515	5000	13 Inch
SSCSSS520TC	TO-277B	SS520	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

**DISCLAIMER**

SSCSEMI RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. SSCSEMI DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENCE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

THE GRAPHS PROVIDED IN THIS DOCUMENT ARE STATISTICAL SUMMARIES BASED ON A LIMITED NUMBER OF SAMPLES AND ARE PROVIDED FOR INFORMATIONAL PURPOSE ONLY. THE PERFORMANCE CHARACTERISTICS LISTED IN THEM ARE NOT TESTED OR GUARANTEED. IN SOME GRAPHS, THE DATA PRESENTED MAY BE OUTSIDE THE SPECIFIED OPERATING RANGE (E.G. OUTSIDE SPECIFIED POWER SUPPLY RANGE) AND THEREFORE OUTSIDE THE WARRANTED RANGE.

THE GRAPHS PROVIDED IN THIS DOCUMENT ARE STATISTICAL SUMMARIES BASED ON A LIMITED NUMBER OF SAMPLES AND ARE PROVIDED FOR INFORMATIONAL PURPOSE ONLY. THE PERFORMANCE CHARACTERISTICS LISTED IN THEM ARE NOT TESTED OR GUARANTEED. IN SOME GRAPHS, THE DATA PRESENTED MAY BE OUTSIDE THE SPECIFIED OPERATING RANGE (E.G. OUTSIDE SPECIFIED POWER SUPPLY RANGE) AND THEREFORE OUTSIDE THE WARRANTED RANGE.