



## SSCSSS840LTC THUR SSCSSS810LTC

### 8.0Amp 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

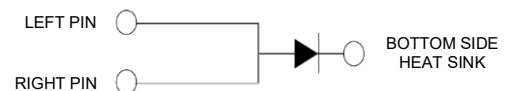
#### ● PIN configuration



**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	SSCSSS8						Unit
		40LTC	45LTC	50LTC	60LTC	80LTC	10LTC	
Maximum Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	45	50	60	80	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	31.5	35	42	56	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	45	50	60	80	100	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	8.0						A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	150.0						A
Max Instantaneous Forward Voltage at 2.0 A	V <sub>F</sub>	0.35			0.40	0.45		V
Max Instantaneous Forward Voltage at 8.0 A		0.48			0.55	0.70		
Maximum DC Reverse Current Ta = 25 °C	I <sub>R</sub>	0.5				0.2		mA
at Rated DC Blocking Voltage Ta =125 °C		50				20		
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

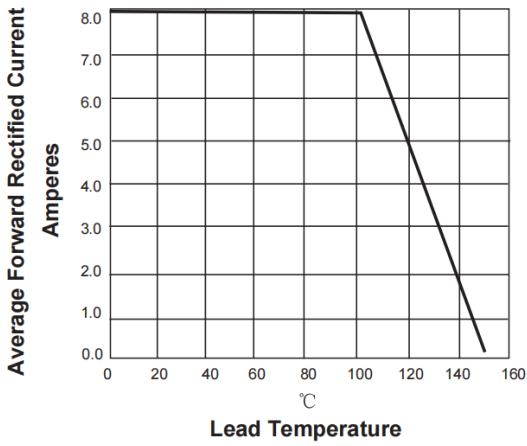


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

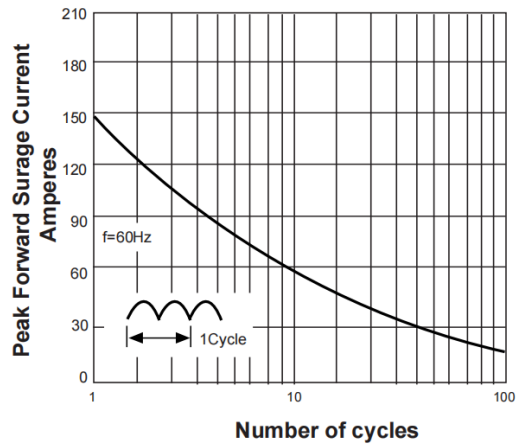


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

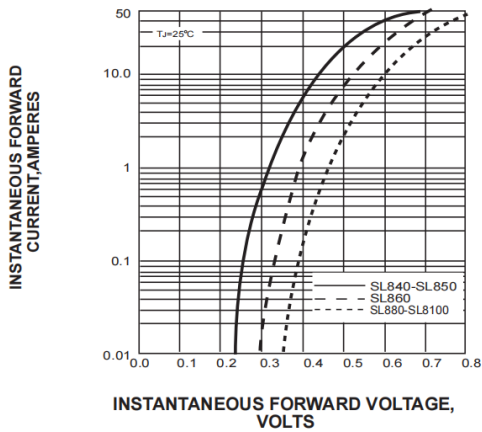


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

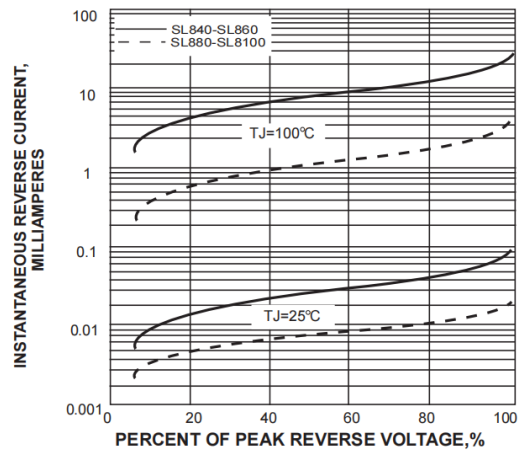
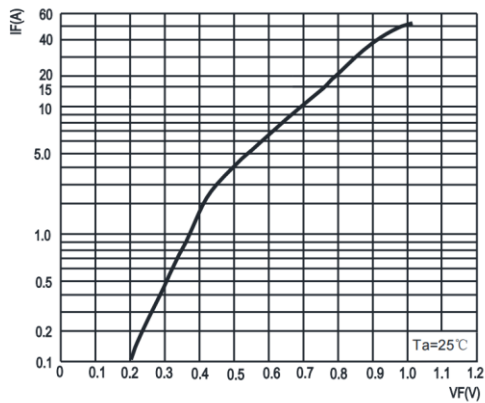


FIG5: Instantaneous Forward Voltage



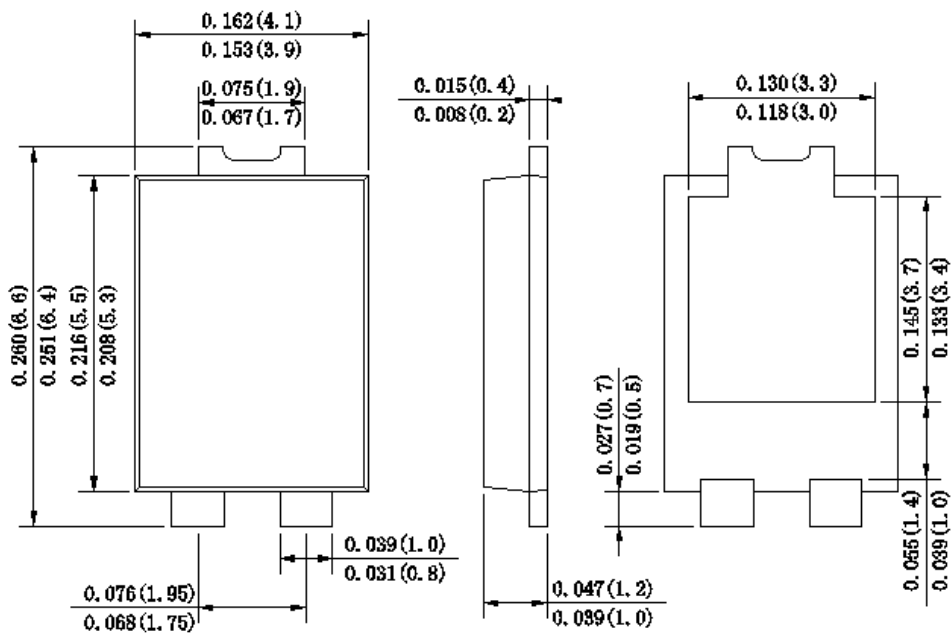


- Package Information

### Ordering Information

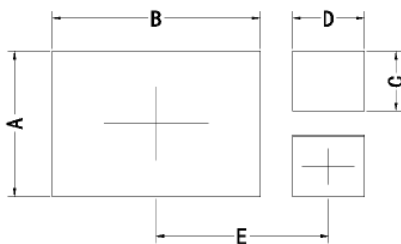
Device	Package	Marking	Qty per Reel	Reel Size
SSCSSS840LTC	TO-277B	S840L	5000	13 Inch
SSCSSS845LTC	TO-277B	S845L	5000	13 Inch
SSCSSS850LTC	TO-277B	S850L	5000	13 Inch
SSCSSS860LTC	TO-277B	S860L	5000	13 Inch
SSCSSS880LTC	TO-277B	S880L	5000	13 Inch
SSCSSS810LTC	TO-277B	S8100L	5000	13 Inch

### Mechanical Data



**Dimensions in inches and (millimeters)**

### Recommended Pad outline

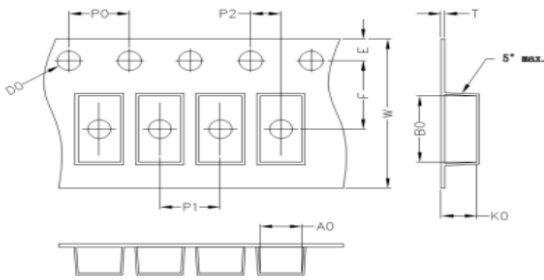


Symbol	Unit (mm)	Unit (inch)
A	3.60	0.142
B	5.35	0.211
C	1.50	0.059
D	1.85	0.073
E	4.30	0.169

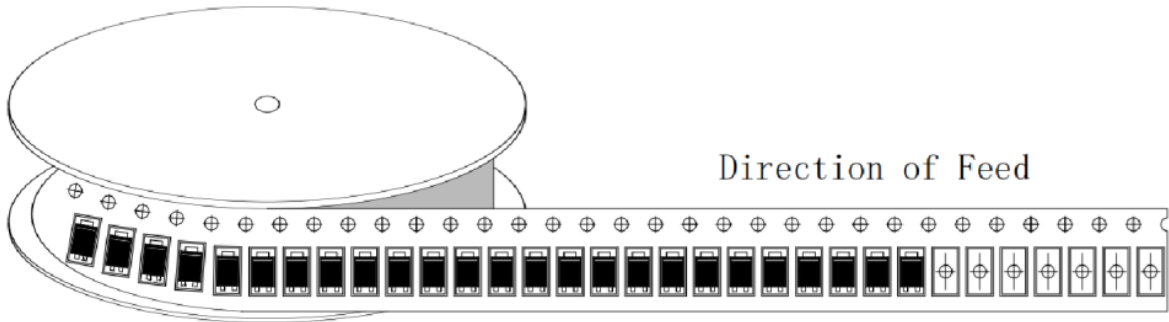
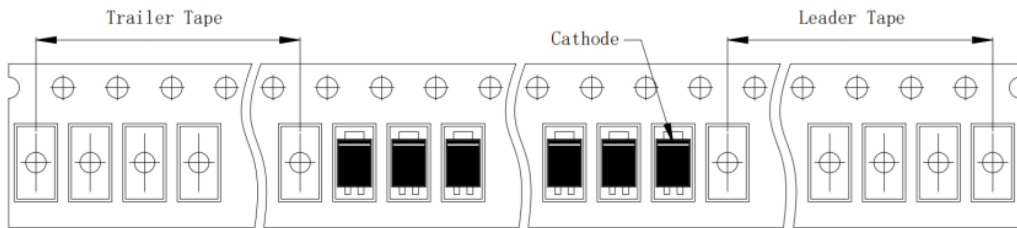


# SSCSSS8XLTC

## Carrier Dimension (mm)



A0	B0	K0	D0	E	F
4.65 ±0.2	6.85 ±0.2	1.35 ±0.2	1.50 ±0.1	1.75 ±0.2	5.50 ±0.2
P0	P1	P2	T	W	
4.0 ±0.1	8.0 ±0.1	2.0 ±0.1	0.25 ±0.05	12 ±0.5	
<b>Leader Tape</b>		50 Empty Pockets			
<b>Trailer Tape</b>		100 Empty Pockets			





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