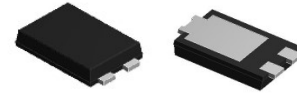
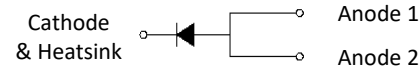


## 10A, 60V Schottky Rectifiers

### FEATURES

- Excellent high temperature stability
- Low forward voltage
- Low power loss/ high efficiency
- High forward surge capability
- Ideal for automated placement
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition


**TO-277B**


### TYPICAL APPLICATIONS

Trench Schottky barrier rectifier is designed for high frequency miniature switched mode power supplies such as adapters, lighting and on-board DC/DC converters.

### MECHANICAL DATA

**Case:** TO-277B

Molding compound meets UL 94 V-0 flammability rating

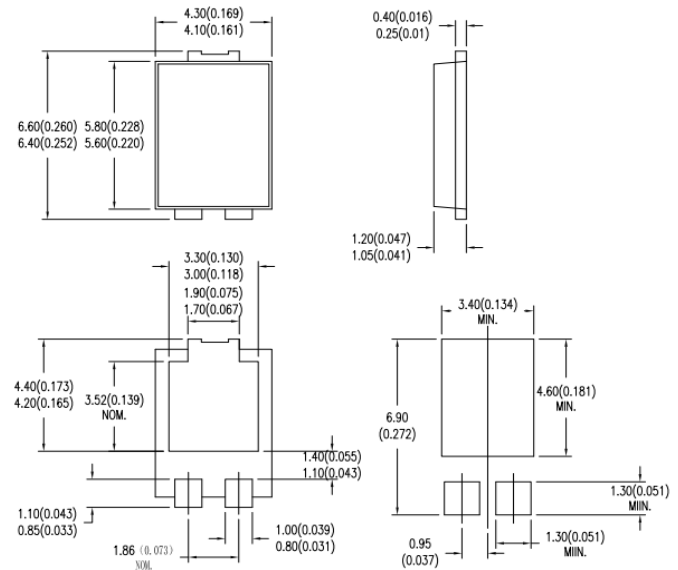
Moisture sensitivity level: level 1, per J-STD-020

**Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

**Polarity:** Indicated by cathode band

**Weight:** 0.095g (approximately)



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

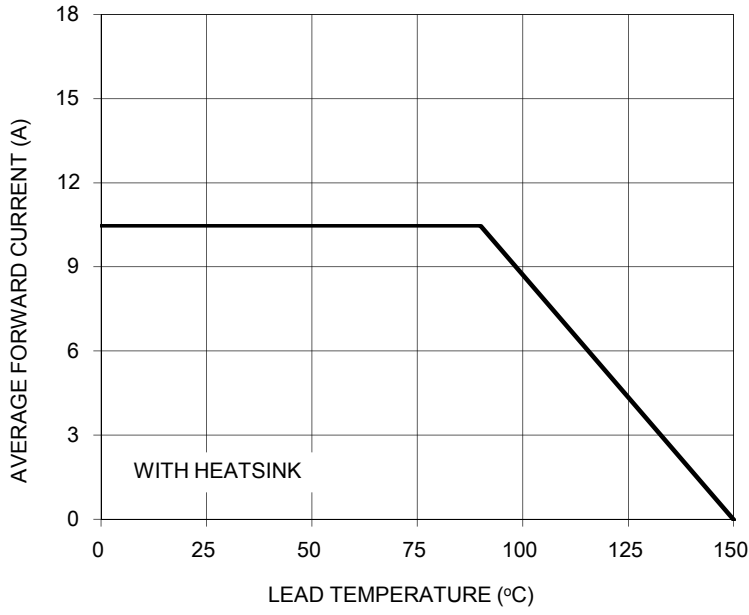
PARAMETER	SYMBOL	<b>SP1060L-C</b>		UNIT	
Maximum repetitive peak reverse voltage	$V_{RRM}$	60		V	
Maximum average forward rectified current	$I_{F(AV)}$	10		A	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load per diode	$I_{FSM}$	280		A	
Maximum instantaneous forward voltage per diode (Note 1)	$V_F$	$I_F = 15\text{A}$	$T_J = 25^\circ\text{C}$	0.50	V
Maximum instantaneous reverse current per diode at rated reverse voltage	$I_R$	$T_J = 25^\circ\text{C}$	200	$\mu\text{A}$	
		$T_J = 125^\circ\text{C}$	4	mA	
Typical thermal resistance	$R_{\theta JL}$	11		$^\circ\text{C/W}$	
Operating temperature range	$T_J$	- 55 to +150		$^\circ\text{C}$	
Storage temperature range	$T_{STG}$	- 55 to +150		$^\circ\text{C}$	

Note 1: Pulse Test with Pulse Width=300 $\mu\text{s}$ , 1% Duty Cycle

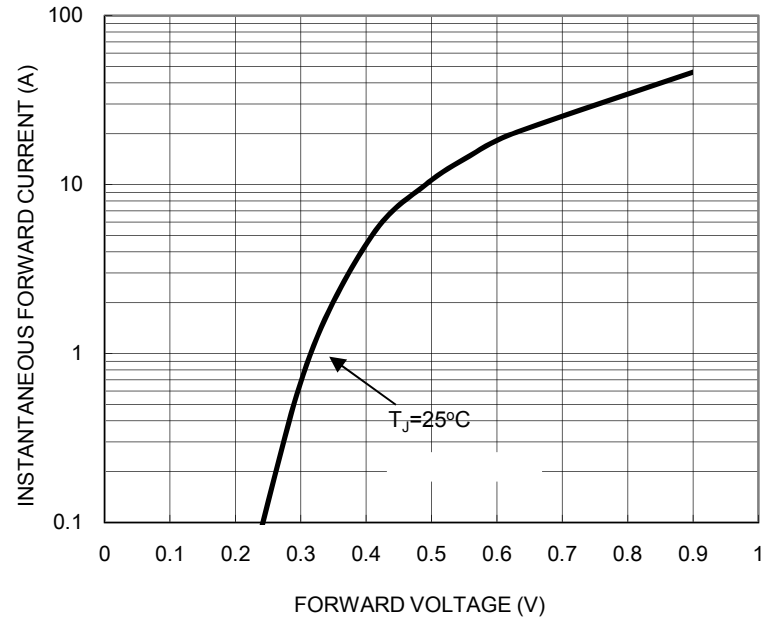
**RATINGS AND CHARACTERISTICS CURVES**

( $T_A=25^\circ\text{C}$  unless otherwise noted)

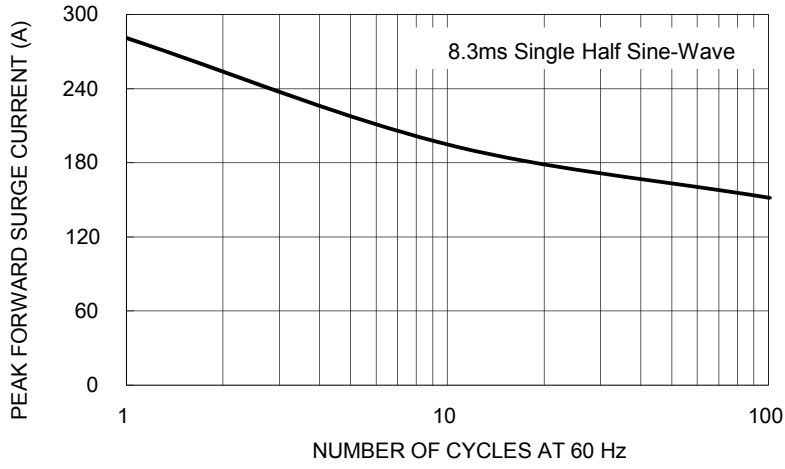
**FIG.1 FORWARD CURRENT DERATING CURVE**



**FIG. 2 TYPICAL FORWARD CHARACTERISTICS**



**FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG. 4 TYPICAL REVERSE CHARACTERISTICS**

