

20 A, 100V 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

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

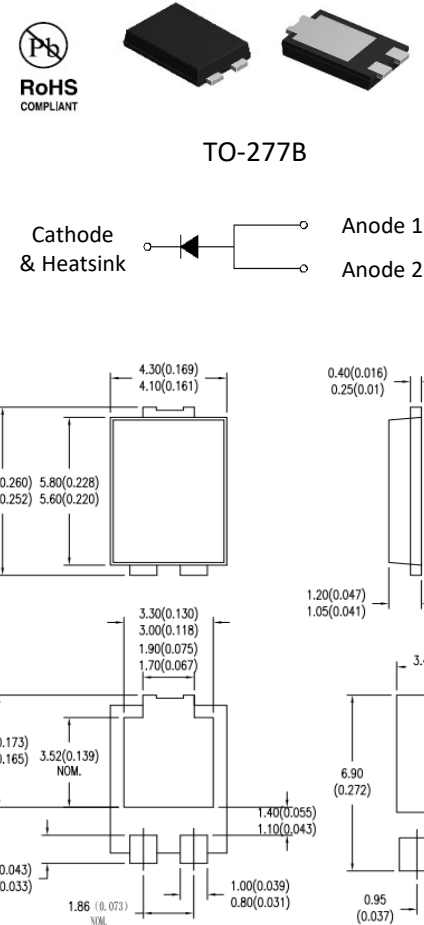
Moisture sensitivity level: level 1, per J-STD-020

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	SP20100L	UNIT	
Maximum repetitive peak reverse voltage		V_{RRM}	100	V	
Maximum average forward rectified current		$I_{F(AV)}$	20	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)	$I_F = 20\text{A}$	$T_J = 25^\circ\text{C}$	V_F	0.72	V
Maximum instantaneous reverse current per diode at rated reverse voltage		$T_J = 25^\circ\text{C}$	I_R	80	μA
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 μs , 1% Duty Cycle

RATINGS AND CHARACTERISTICS CURVES

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

FIG.1 FORWARD CURRENT DERATING CURVE

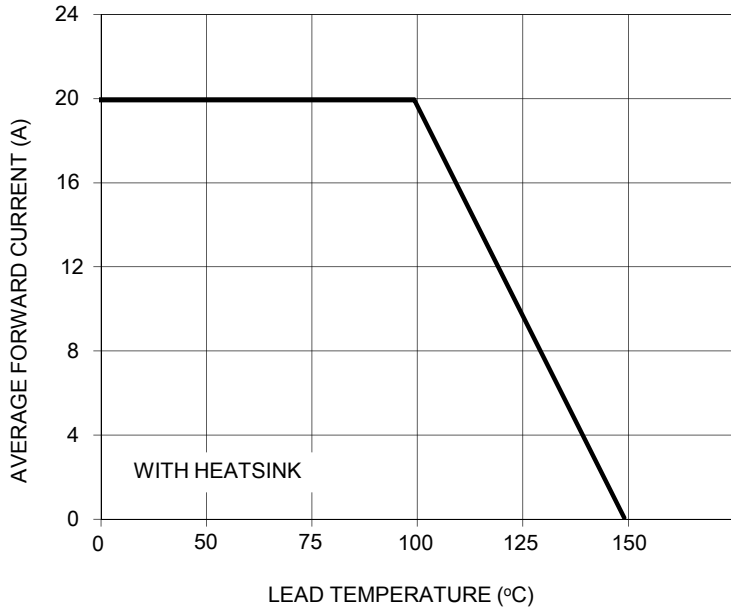


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

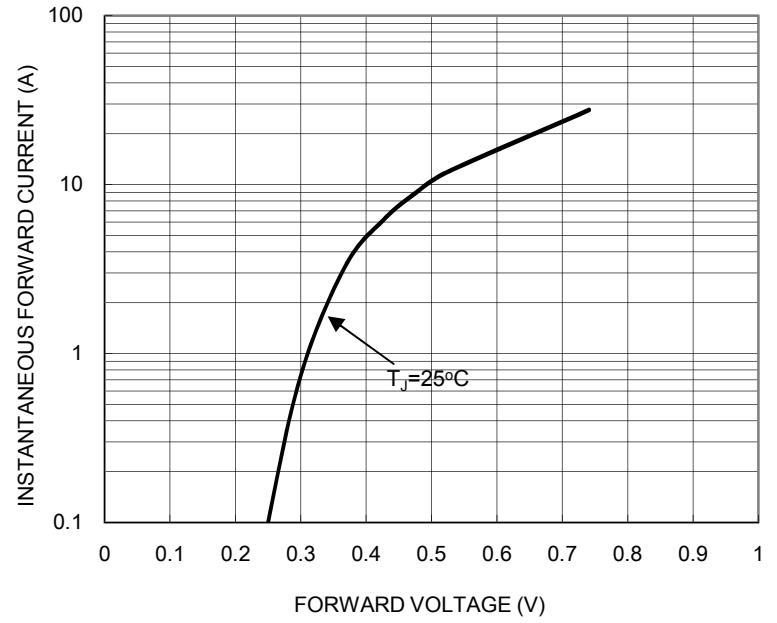


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

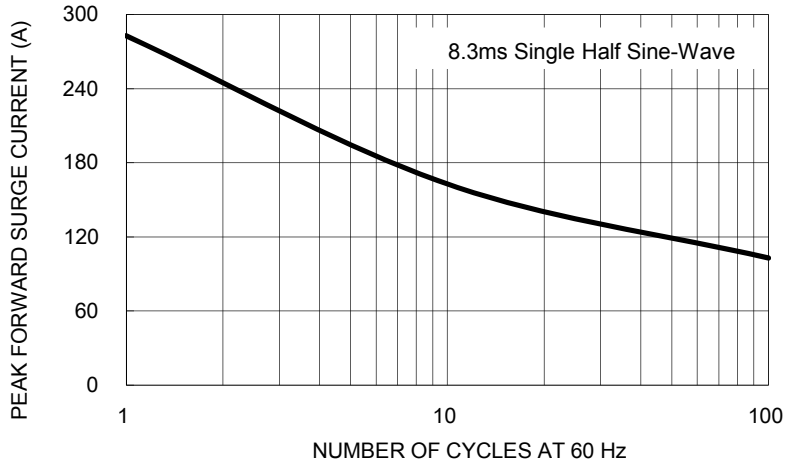
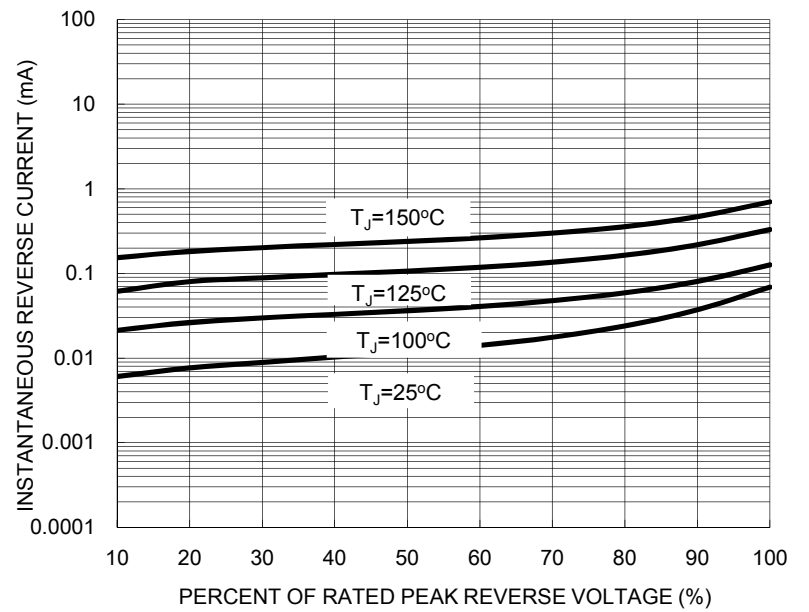


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



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