

20A, 80V 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

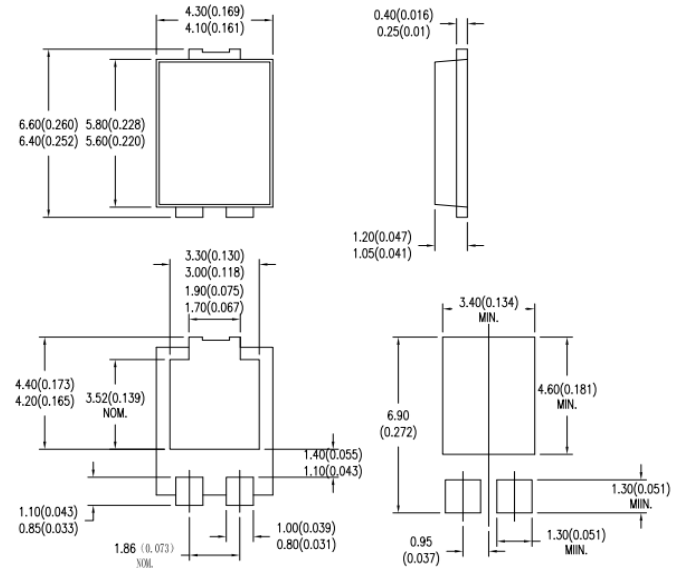
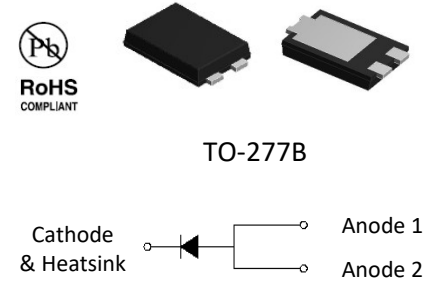
Moisture sensitivity level: level 1, per J-STD-020

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	SP2080L		UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	80		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)	V_F	$I_F = 20\text{A}$	$T_J = 25^\circ\text{C}$	0.60	V
Maximum instantaneous reverse current per diode at rated reverse voltage	I_R	$T_J = 25^\circ\text{C}$	100	μA	
		$T_J = 125^\circ\text{C}$	10	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 μs , 1% Duty Cycle

RATINGS AND CHARACTERISTICS CURVES

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

FIG.1 FORWARD CURRENT DERATING CURVE

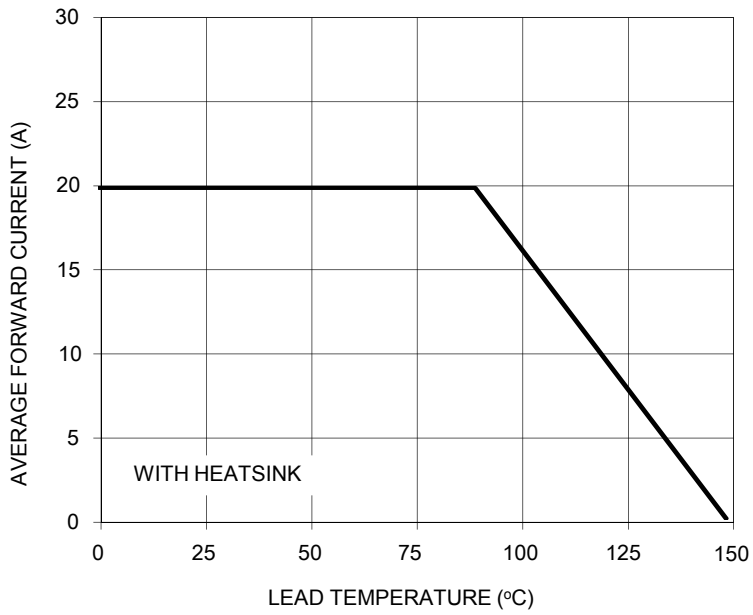


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

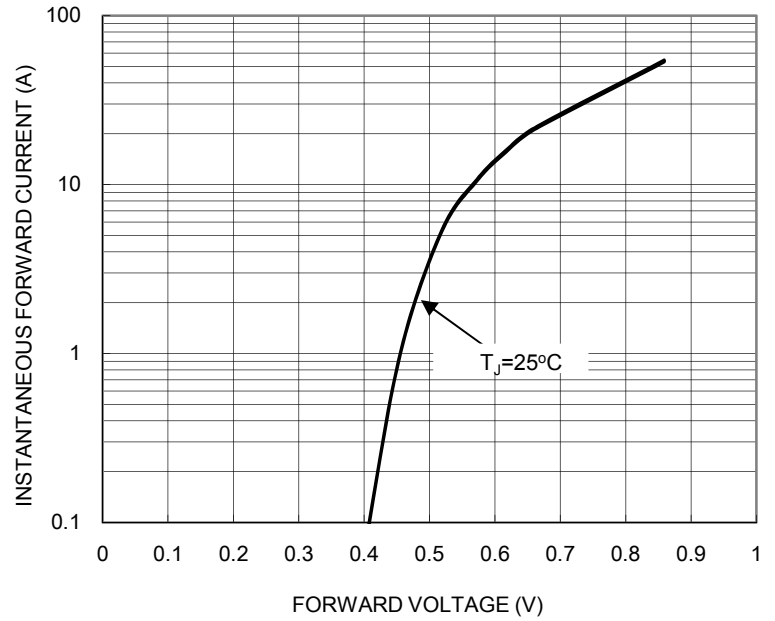


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

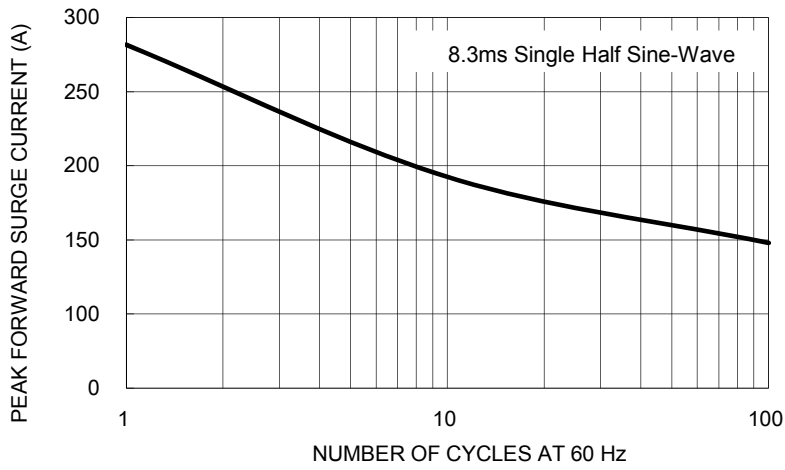


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

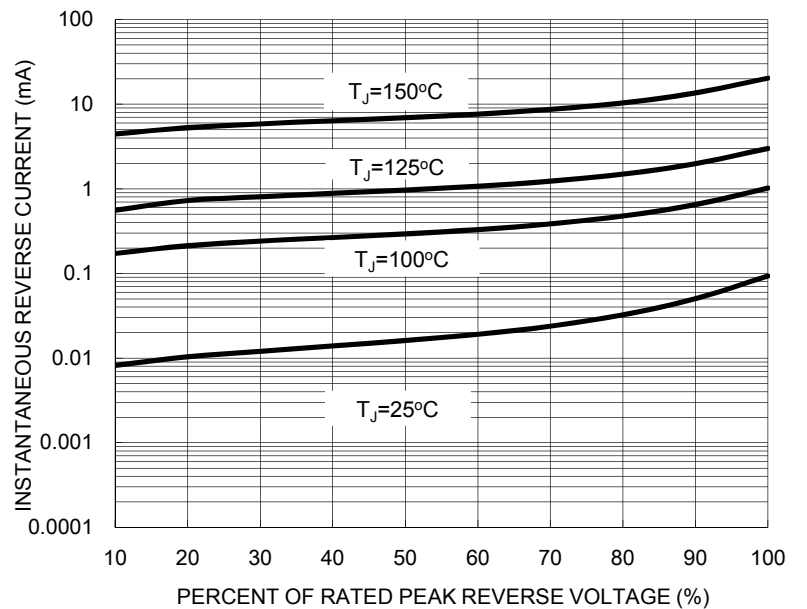
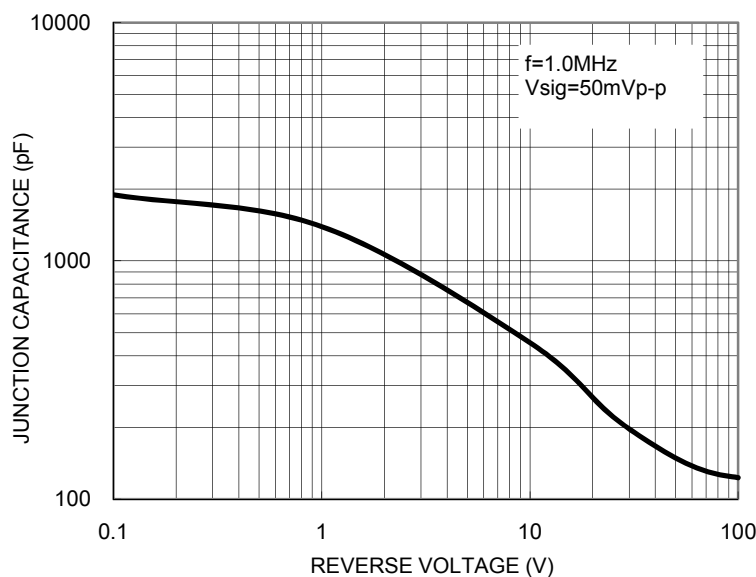


FIG. 5 TYPICAL JUNCTION CAPACITANCE



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