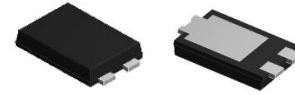


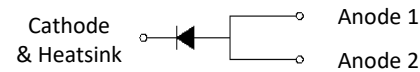
10A, 200V Schottky Rectifiers

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

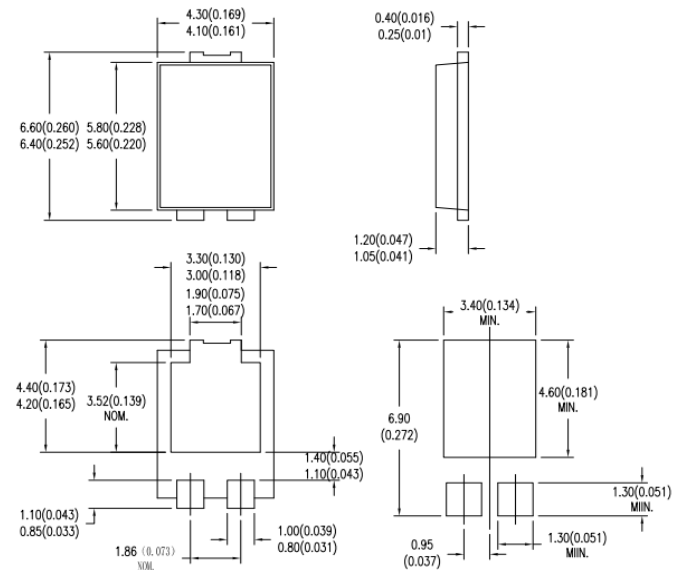
Moisture sensitivity level: level 1, per J-STD-020

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	SB10200	UNIT
Maximum repetitive peak reverse voltage			V_{RRM}	200	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}	150	A
Maximum instantaneous forward voltage per diode (Note 1)	$I_F = 10A$	$T_J = 25^{\circ}C$	V_F	0.90	V
Maximum instantaneous reverse current per diode at rated reverse voltage		$T_J = 25^{\circ}C$	I_R	5	μA
		$T_J = 125^{\circ}C$		10	mA
Typical thermal resistance			$R_{\theta JL}$	15	$^{\circ}C/W$
Operating temperature range			T_J	- 55 to +175	$^{\circ}C$
Storage temperature range			T_{STG}	- 55 to +175	$^{\circ}C$

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

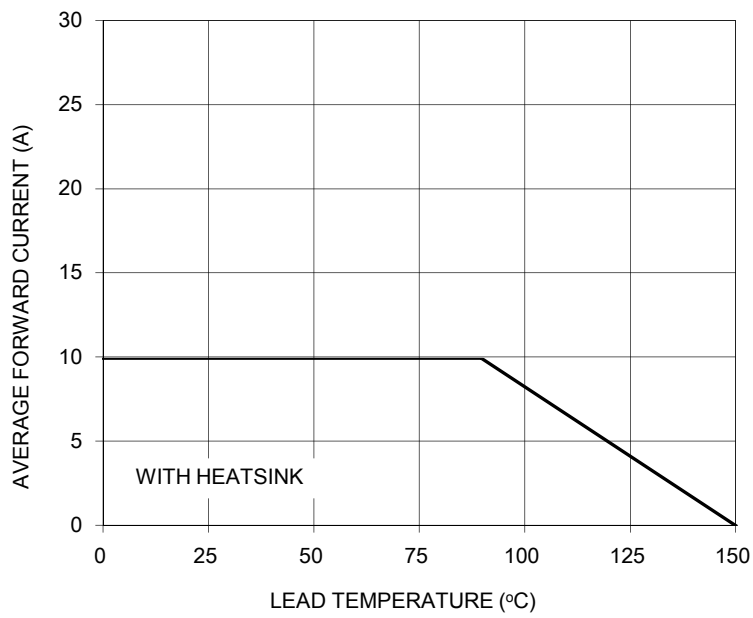


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

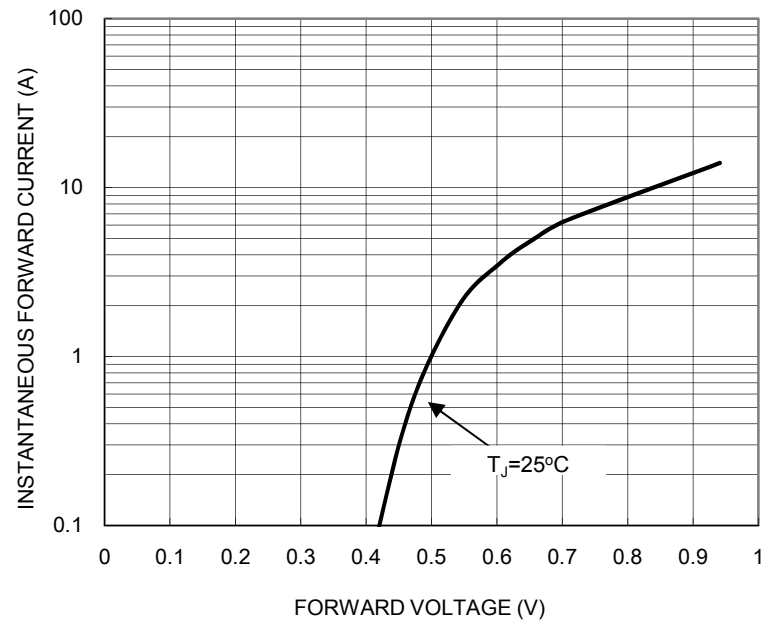


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

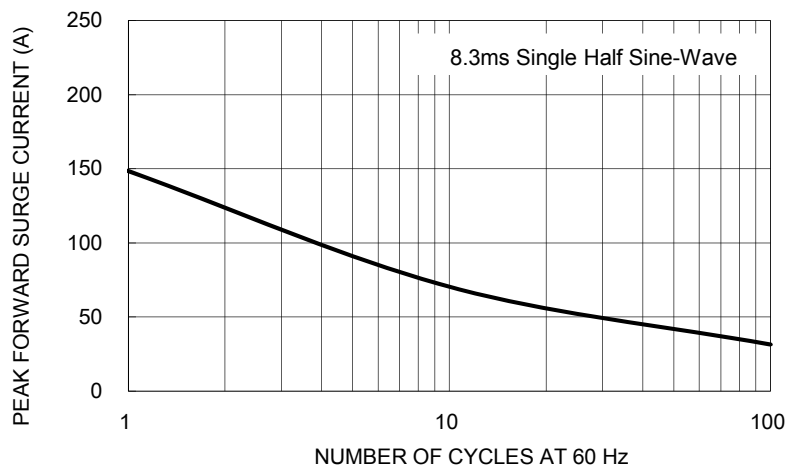


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

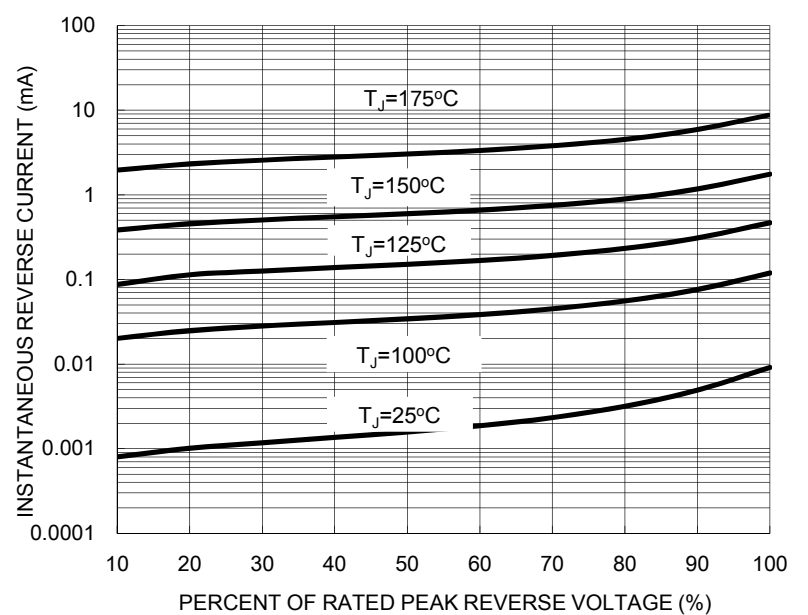


FIG. 5 TYPICAL JUNCTION CAPACITANCE

