

8A, 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

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°C unless otherwise noted)					
PARAMETER			SYMBOL	SP860L	UNIT
Maximum repetitive peak reverse voltage			V _{RRM}	60	V
Maximum average forward rectified current			I _{F(AV)}	8	A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load per diode			I _{FSM}	180	A
Maximum instantaneous forward voltage per diode (Note 1)	I _F = 10A	T _J = 25°C	V _F	0.53	V
Maximum instantaneous reverse current per diode at rated reverse voltage		T _J = 25°C	I _R	150	μA
		T _J = 125°C	'R	0.5	mA
Typical thermal resistance			R _{eJL}	11	°C/W
Operating temperature range			TJ	- 55 to +150	°C
Storage temperature range			T _{STG}	- 55 to +150	°C

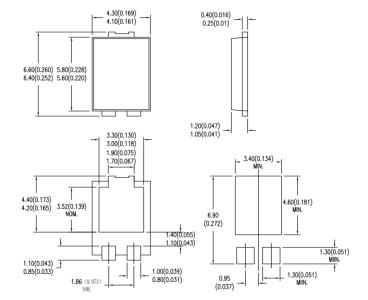
Note 1: Pulse Test with Pulse Width=300µs, 1% Duty Cycle



TO-277B

SP860L

Cathode ______ Anode 1 & Heatsink _____ Anode 2







RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

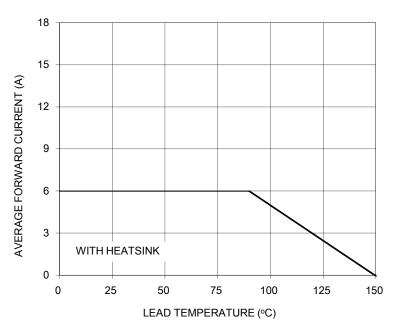


FIG.1 FORWARD CURRENT DERATING CURVE

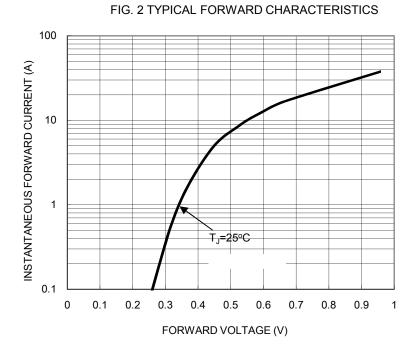


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

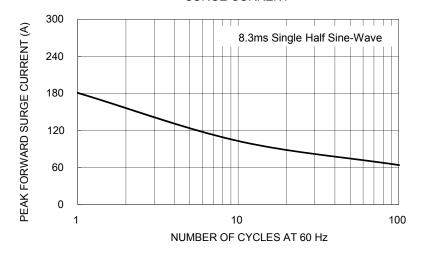


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

