

FEATURES

- Trench MOS schottky barrier diode
- Low forward voltage drop
- low profile typical body height 1.1 mm
- High temperature soldering guaranteed: 260 °C/10 seconds
- RoHS compliant
- Halogen-free according to IEC 61249-2-21 definition

TO-277B Reach Cathode & Heatsink Anode 2

MECHANICAL DATA

- Case: TO-277B
- Case material: molding compound meets UL 94V-0 flammability rating
- Polarity: color band denotes cathode end

TYPICAL APPLICATION

General purpose use in AC to DC wave rectification for SMPS, lighting, adapter, charger, home appliance, office equipment and telecommunication.

MAXIMUM RATINGS

 T_A =25°C unless otherwise noted

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	150	V
Average Forward Rectified Current	I _{F(AV)}	15	Α
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	250	Α
Operating Junction Temperature Range	T _J	-55 to +150	$^{\circ}$
Storage Temperature Range	T _{STG}	-55 to +150	$^{\circ}$

ELECTRICAL CHARACTERISTICS

 T_A =25°C unless otherwise noted

Parameter	Test Conditions	Symbol	Value		I I m i f
			Тур.	Max.	Unit
Farward Valtage @L =15A	T _A =25℃	V _F	0.78	0.82	V
Forward Voltage@I _F =15A	T _A =125℃		0.7	0.75	_
Beveree Current @ V	T _A =25℃	I _R	10	50	uA
Reverse Current @ V _{RRM}	T _A =125℃		5	35	mA
Typical Thermal Resistance		$R_{\theta JA}$	68		°C/W





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RATINGS AND CHARACTERISTIC CURVES

T_A=25°C unless otherwise noted

FIG.1: Forward Output Current Derating Curve

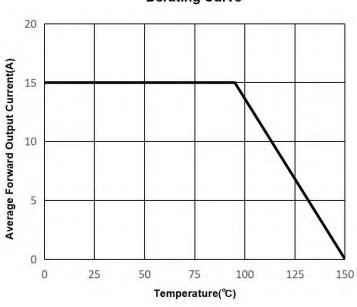


FIG.2: Maximum Non-Repetitive Peak Forward Surge Current

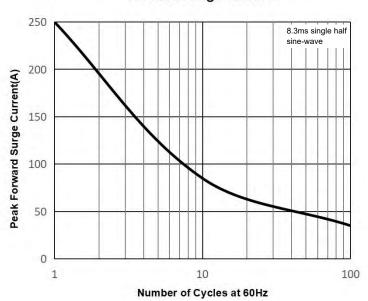


FIG.3: Typical Forward Characteristics

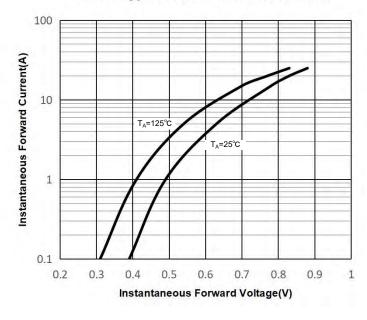
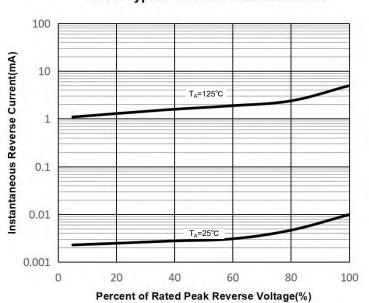


FIG.4: Typical Reverse Characteristics

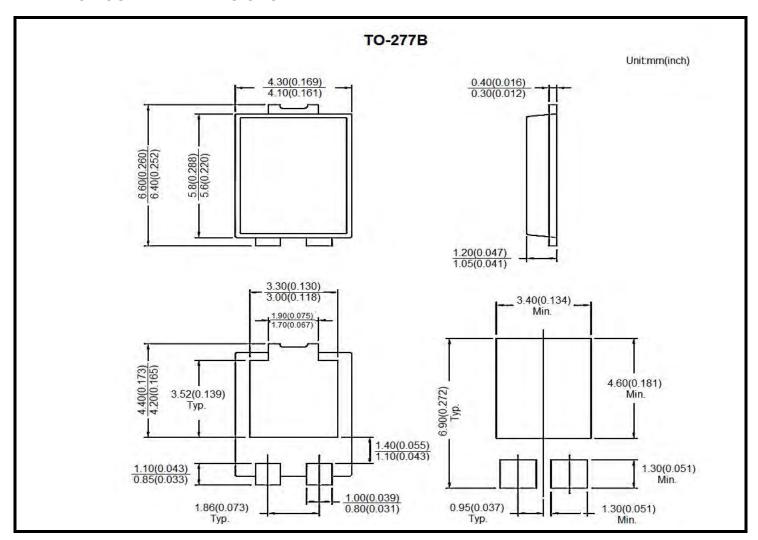




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PACKAGE OUTLINE DIMENSIONS



PACKING INFORMATION

Package	Reel(PCS)	Inner Box(PCS)	Carton(PCS)	
TO-277B	5,000	10,000	80,000	



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