Anode 2



TO-277B



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

RoHS COMPLIANT HALOGEN FREE

MECHANICAL DATA

- Case: TO-277B

- Case material: molding compound meets UL 94V-0 flammability rating

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}	100	V
Average Forward Rectified Current	I _{F(AV)}	5	Α
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	150	А
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		11!4
			Тур.	Max.	Unit
Forward Voltage@I _F =5A	T _A =25℃	V _F	0.56	0.6	V
I diward voicage@if=3A	T _A =125℃		0.5	0.54	
Reverse Current @ V _{RRM}	T _A =25℃	I _R	15	65	uA
Reverse Current @ V _{RRM}	T _A =125℃		10	50	mA
Typical Thermal Resistance (junction to ambient)		$R_{\theta JA}$	102		°C/W





RATINGS AND CHARACTERISTIC CURVES

 T_A =25°C unless otherwise noted

0

25

50

Forward Surge Current

150
120
90
10
10
Number of Cycles at 60Hz

FIG.2: Maximum Non-Repetitive Peak

FIG.3: Typical Forward Characteristics

75

Temperature(°C)

100

125

150

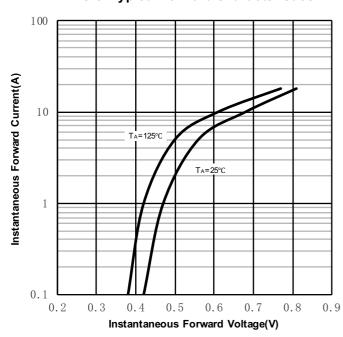
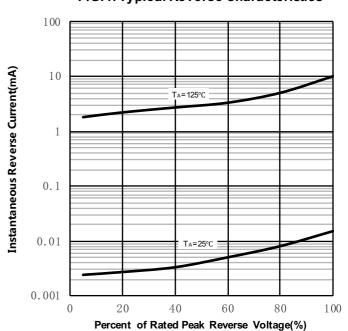


FIG.4: Typical Reverse Characteristics

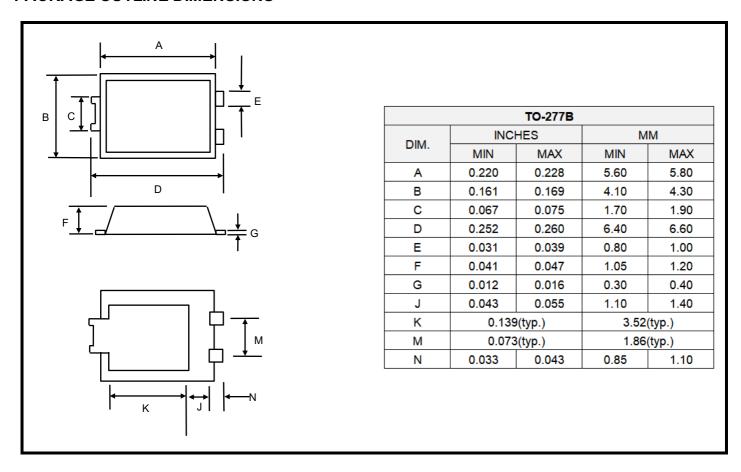




0000 - 2 - REV.E(3)



PACKAGE OUTLINE DIMENSIONS



PACKING INFORMATION

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



0000 - 3 - REV.E(3)

5A, 100V Low Forward Voltage Schottky Rectifier

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- 1. Above specification may be changed without notice. MHCHXM will reserve authority on material change for above specification.
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0000 - 4 - REV.E(3)