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FEATURES

- Planar 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



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

 $T_A{=}25^\circ\!\!{\rm C}$ unless otherwise noted

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	200	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}	140	A
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

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

Parameter	Test Conditions	Symbol	Value		Unit
			Тур.	Max.	
Forward Voltage@I _F =5A	T _A =25℃	V _F	0.78	0.81	v
	T _A =125℃	۷F	0.66	0.69	V
Reverse Current @ V _{BRM}	T _A =25℃	I _R	1	10	uA
	T _A =125℃		0.6	5	mA
Typical Thermal Resistance (junction to ambient)		R _{eja}	102		℃/W

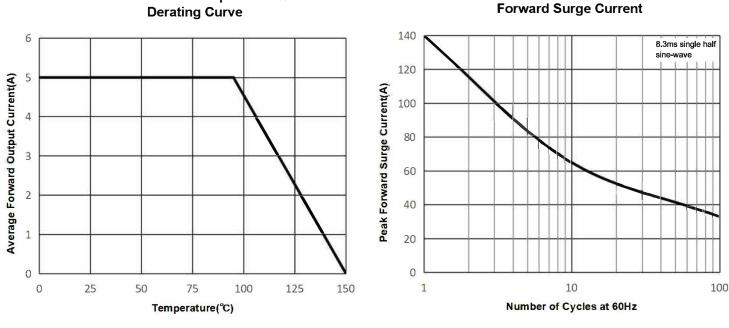


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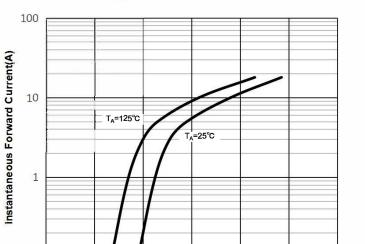


RATINGS AND CHARACTERISTIC CURVES

T_A=25℃ unless otherwise noted







0.8

Instantaneous Forward Voltage(V)

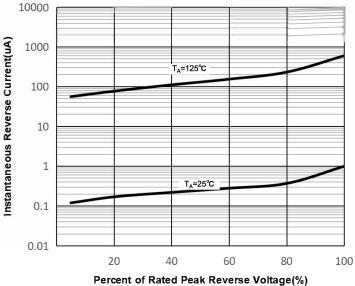
1

1.2

1.4

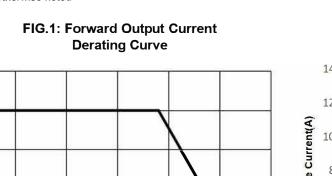
FIG.4: Typical Reverse Characteristics

FIG.2: Maximum Non-Repetitive Peak





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0.4

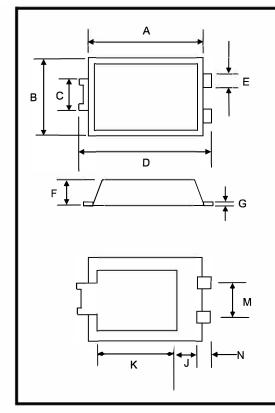
0.6

0.1

0.2



PACKAGE OUTLINE DIMENSIONS



		TO-277B		
DIM.	INC	HES	MM	
	MIN	MAX	MIN	MAX
А	0.220	0.228	5.60	5.80
в	0.161	0.169	4.10	4.30
С	0.067	0.075	1.70	1.90
D	0.252	0.260	6.40	6.60
Е	0.031	0.039	0.80	1.00
F	0.041	0.047	1.05	1.20
G	0.012	0.016	0.30	0.40
J	0.043	0.055	1.10	1.40
к	0.139(typ.)		3.52(typ.)	
M	0.073(typ.)		1.86(typ.)	
N	0.033	0.043	0.85	1.10

PACKING INFORMATION

Package	Reel(PCS)	Inner Box(PCS)	Carton(PCS)
ТО-277В	5,000	10,000	80,000



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DISCLAIMER

1. Above specification may be changed without notice. MHCHXM will reserve authority on material change for above specification.

2. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.

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