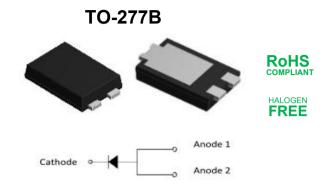


FEATURES

- 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

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	50	V
Average Forward Rectified Current	I _{F(AV)}	15	А
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	160	А
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

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

Devemeter	Test Conditions	Symbol	Value		Unit
Parameter			Тур.	Max.	Unit
Forward Violtage @L =15A	T _A =25℃	V _F	0.52	0.56	V
Forward Voltage@I _F =15A	T _A =125℃		0.44	0.47	
	T _A =25℃	۱ _R	80	150	uA
Reverse Current @ V _{RRM}	T _A =125℃		50	100	mA
Typical Thermal Resistance (junction to ambient)		R _{θJA}	102		°C/W

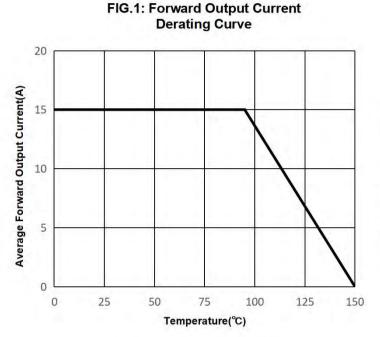


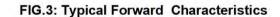
REV.E(3)



RATINGS AND CHARACTERISTIC CURVES

 T_A =25°C unless otherwise noted





=25°C

0.4

0.5

0.6

0.7

T_A=125°C

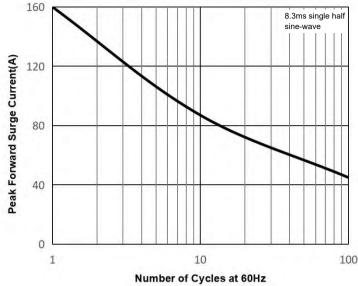
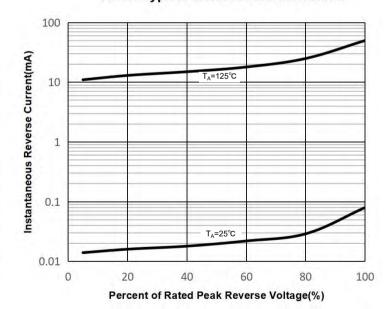


FIG.2: Maximum Non-Repetitive Peak

Forward Surge Current







REV.E(3)

0.1

0.2

0.3

Instantaneous Forward Voltage(V)

100

10

1

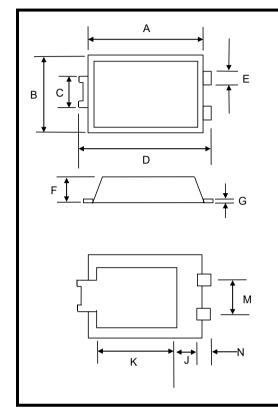
0.1

0

Instantaneous Forward Current(A)



PACKAGE OUTLINE DIMENSIONS



		TO-277B		
DIM.	INCHES		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
E	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)
TO-277B	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.

3.When using this product, please observe the absolute maximum ratings and the instructions for use outlined in these specification sheets. MHCHXM assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.

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REV.E(3