

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



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}	100	V
Average Forward Rectified Current	I _{F(AV)}	10	Α
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	240	А
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	Ĉ

ELECTRICAL CHARACTERISTICS

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

Parameter	Test Conditions	Symbol	Value		Unit
			Тур.	Max.	
Forward Voltage@L =24	T _A =25℃	V _F	0.45	0.49	v
Forward Voltage@I _F =3A	T _A =125℃		0.4	0.44	
Forward Voltage @L =104	T _A =25℃		0.6	0.65	
Forward Voltage@I _F =10A	T _A =125℃		0.54	0.59	
Boveros Current @ V	T _A =25℃	I _R	25	70	uA
Reverse Current @ V _{RRM}	T _A =125℃		10	50	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

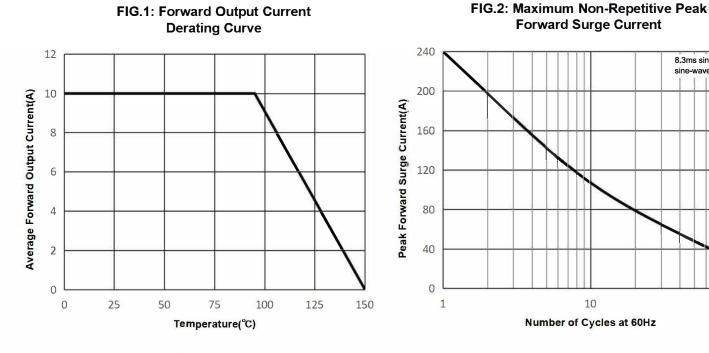
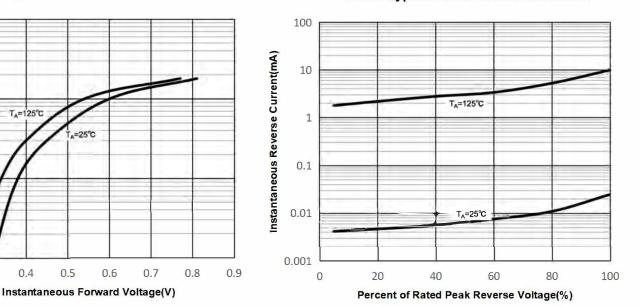




FIG.4: Typical Reverse Characteristics

8.3ms single half sine-wave

100





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100

10

1

0.1

0.2

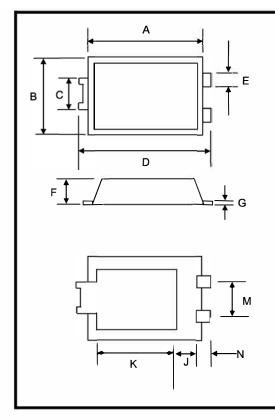
0.3

Instantaneous Forward Current(A)



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PACKAGE OUTLINE DIMENSIONS



		TO-277B		
	INCHES		MM	
DIM.	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
K	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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