

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

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	300	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}	100	А
Operating Junction Temperature Range	TJ	-55 to +150	Ĉ
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
Farameter			Тур.	Max.	
Forward Valtage@L =54	T _A =25℃	V _F	0.89	0.93	v
Forward Voltage@I _F =5A	T _A =125℃		0.76	0.79	
Boveros Current @)/	T _A =25℃	I _R	1	10	uA
Reverse Current @ V _{RRM}	T _A =125℃		0.6	5	mA
Typical Thermal Resistance (junction to ambient)		R _{θJA}	102		℃/W



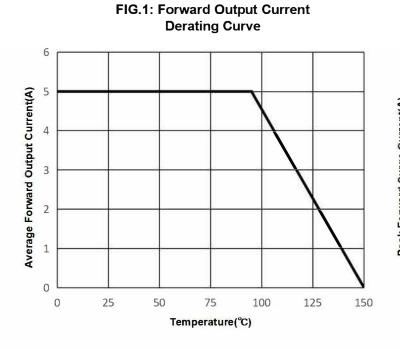
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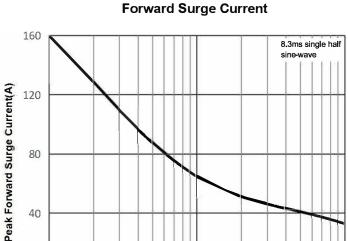


RATINGS AND CHARACTERISTIC CURVES

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







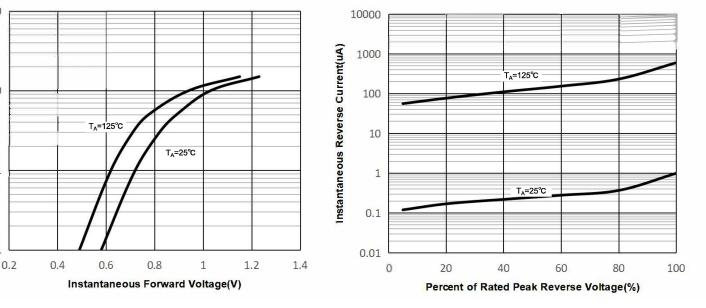
10

Number of Cycles at 60Hz

FIG.4: Typical Reverse Characteristics

100

FIG.2: Maximum Non-Repetitive Peak



0

1



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100

10

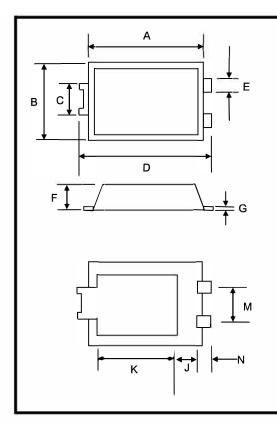
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0.1

Instantaneous Forward Current(A)



PACKAGE OUTLINE DIMENSIONS



		TO-277B		
	INC	HES	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
К	0.139(typ.)		3.52	(typ.)
М	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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