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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

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	50	V
Average Forward Rectified Current	I _{F(AV)}	20	Α
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	300	A
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

T_A=25℃ unless otherwise noted

Beremeter	Test Conditions	Symbol	Value		
Parameter			Тур.	Max.	Unit
Forward Voltage @L = 200	T _A =25℃	V _F	0.48	0.51	v
Forward Voltage@I _F =20A	T _A =125℃		0.41	0.44	
Beveree Current @)/	T _A =25℃	I _R	90	150	uA
Reverse Current @ V _{RRM}	T _A =125℃		70	120	mA
Typical Thermal Resistance (junction to ambient)		R _{eja}	102		℃/W



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RATINGS AND CHARACTERISTIC CURVES

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

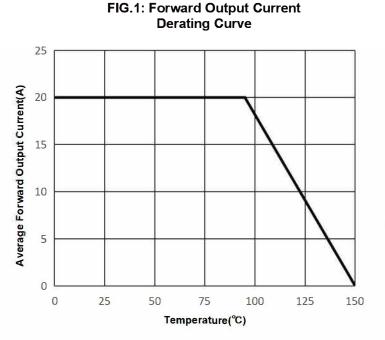


FIG.3: Typical Forward Characteristics

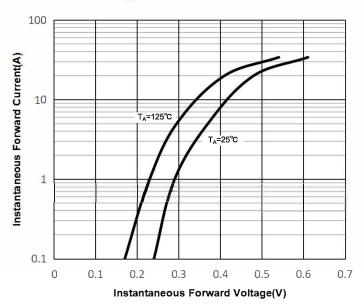
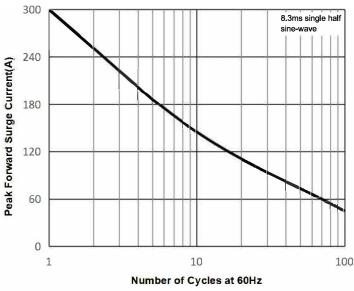
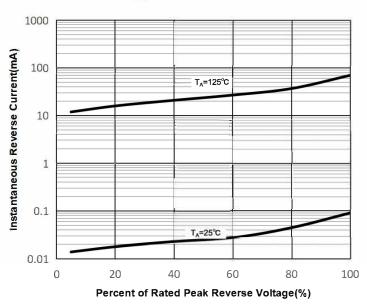


FIG.2: Maximum Non-Repetitive Peak Forward Surge Current







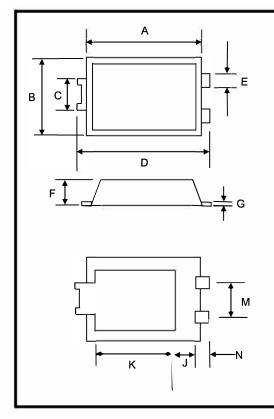


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PACKAGE OUTLINE DIMENSIONS



		TO-277B			
DIM.	INC	INCHES		MM	
	MIN	MAX	MIN	MAX	
A	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.)	
Ν	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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