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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℃ unless otherwise noted

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	45	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}	250	А
Operating Junction Temperature Range	T_J	-55 to +150	$^{\circ}$ C
Storage Temperature Range	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

T₄=25°C unless otherwise noted

Parameter	Took Conditions	Symbol	Value		11
	rest Conditions		Тур.	Max.	Unit
Forward Voltage @L =104	T _A =25℃	V _F	0.43	0.46	V
Forward Voltage@I _F =10A	T _A =125℃		0.36	0.39	
Deverse Current @ V	T _A =25℃	I _R	80	120	uA
Reverse Current @ V _{RRM}	T _A =125℃		65	100	mA
Typical Thermal Resistance (junction to ambient)		R _{eJA}	102		°C/W



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RATINGS AND CHARACTERISTIC CURVES

T_A=25℃ unless otherwise noted

FIG.1: Forward Output Current **Derating Curve**

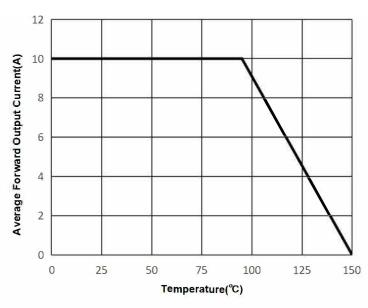


FIG.2: Maximum Non-Repetitive Peak **Forward Surge Current**

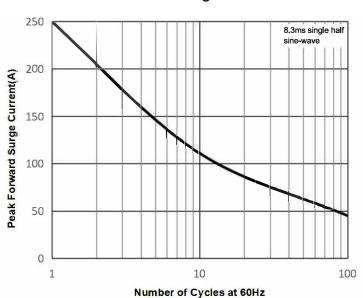


FIG.3: Typical Forward Characteristics

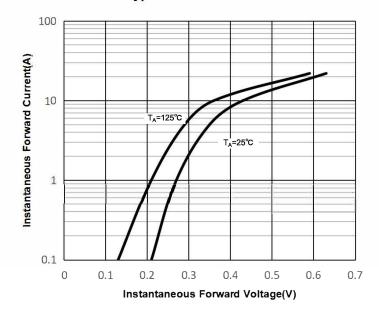
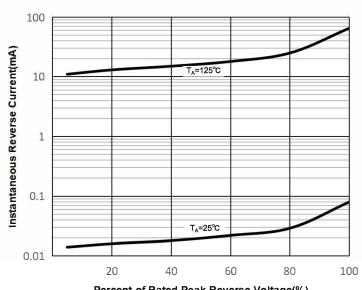


FIG.4: Typical Reverse Characteristics



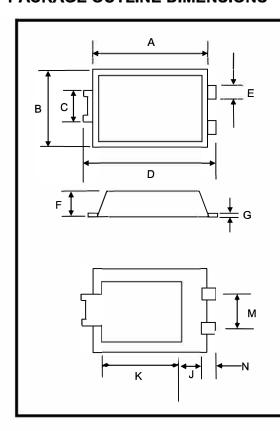
Percent of Rated Peak Reverse Voltage(%)



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PACKAGE OUTLINE DIMENSIONS



		TO-277B		
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
Α	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.)	
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)
TO-277B	5,000	10,000	80,000



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