

FEATURES

- Trench MOS Schottky barrier diode
- Low forward voltage drop
- low profile typical body height 1.1 mm
- High temperature soldering guaranteed: 260 $^\circ \rm C/10$ 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 bridge 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	
Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Average Forward Rectified Current	I _{F(AV)}	12	Α
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	250	A
Operating Junction Temperature Range T _J		-55 to +150	
Storage Temperature Range	T _{STG}	-55 to +150	

ELECTRICAL CHARACTERISTICS

T_A=25℃ unless otherwise noted

Parameter	Test Conditions	Symbol	Value		Unit
Farameter			Тур.	Max.	
Forward Voltage @1 -24	T _A =25℃	V _F	0.45	0.5	- v
Forward Voltage@I _F =3A	T _A =125℃		0.39	0.43	
Forward Valtage @1 =124	T _A =25℃		0.62	0.67	v
Forward Voltage@I _F =12A	T _A =125℃		0.53	0.57	
Beveree Current @ V	T _A =25℃	I _R	25	100	μA
Reverse Current @ V _{RRM}	T _A =125℃		10	50	mA
Turical Thermal Desistance		R _{eja}	68		°C/₩
Typical Thermal Resistance		R _{eJL}	10		



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RATINGS AND CHARACTERISTIC CURVES

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

100

10

1

0.1

0.2

Instantaneous Forward Current(A)

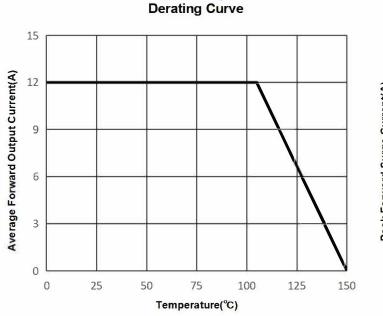


FIG.1: Forward Output Current



=25°C

0.5

Instantaneous Forward Voltage(V)

0.4

0.6

0.7

0.8

T_A=125°C

0.3

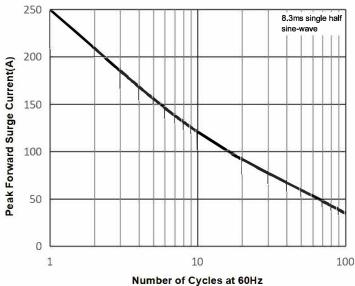
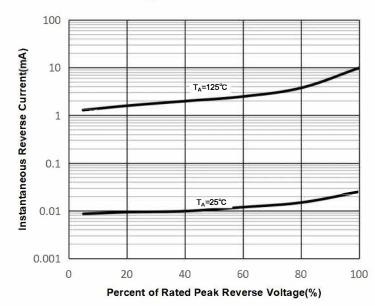


FIG.2: Maximum Non-Repetitive Peak

Forward Surge Current



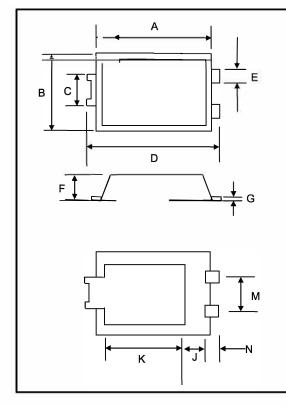








PACKAGE OUTLINE DIMENSIONS



		TO-277B		
DIM.	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.)
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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DISCLAIMER

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