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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

то-277В

Anode 2

OHS

Reach

MECHANICAL DATA

- Case: TO-277B
- Case material: molding compound meets UL 94V-0 flammability rating

TYPICAL APPLICATION

General purpose use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

MAXIMUM RATINGS

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

Parameter	Symbol	Value	
Repetitive Peak Reverse Voltage	V _{RRM}	60	V
Average Forward Rectified Current	I _{F(AV)}	15	A
Peak forward surge current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	280	A
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

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

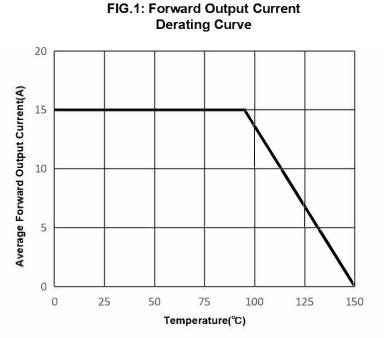
Parameter	Test Conditions	Symbol	Value		11
			Тур.	Max.	Unit
Forward Voltage @1 =5 A	T _A =25℃	V _F	0.42	0.45	- v
Forward Voltage@I _F =5A	T _A =125℃		0.37	0.41	
Ferward Veltage @1 =154	T _A =25℃		0.5	0.54	
Forward Voltage@I _F =15A	T _A =125℃		0.45	0.49	
Bowerse Current @)/	T _A =25℃	I _R	20	70	uA
Reverse Current @ V _{RRM}	T _A =125℃		10	50	mA
Typical Thermal Resistance		R _{eja}	68		сw



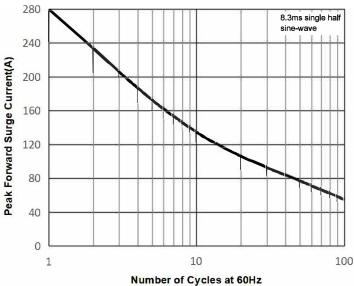


RATINGS AND CHARACTERISTIC CURVES

 T_A =25°C unless otherwise noted

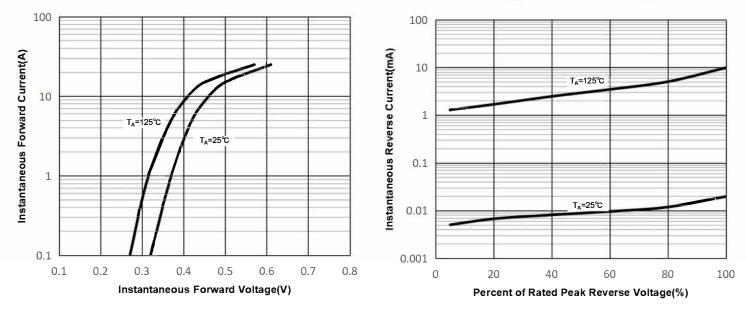








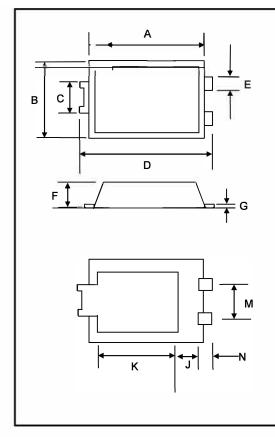








PACKAGE OUTLINE DIMENSIONS



		TO-277B		
DIM	INCHES		MM	
DIM.	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.)
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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2. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.

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