

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



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

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	60	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}	280	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		11
			Тур.	Max.	Unit
Forward Voltage al -104	T _A =25℃	V _F	0.46	0.49	v
Forward Voltage@I _F =10A	T _A =125℃		0.41	0.44	
Forward Voltage@L =204	T _A =25℃		0.53	0.56	
Forward Voltage@I _F =20A	T _A =125℃		0.47	0.51	
Boverse Current @)/	T _A =25℃	I _R	15	50	uA
Reverse Current @ V _{RRM}	T _A =125℃		10	35	mA
Typical Thermal Resistance		R _{eja}	88		℃/W





RATINGS AND CHARACTERISTIC CURVES

T_A=25℃ unless otherwise noted

100

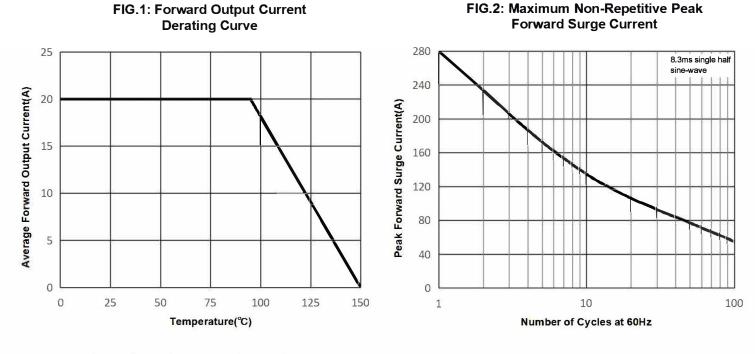
10

1

0.1

0.1

Instantaneous Forward Current(A)





T_A=25℃

0.5

Instantaneous Forward Voltage(V)

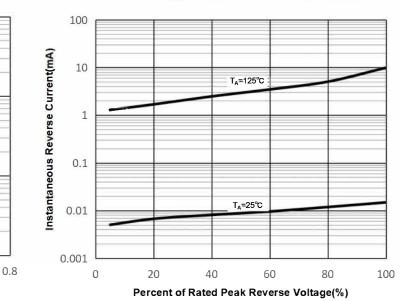
0.6

0.4

T_A=125℃

0.3





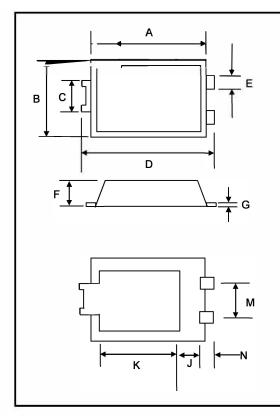


0.2

0.7



PACKAGE OUTLINE DIMENSIONS



		TO-277B		
2114	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	B(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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