

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

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	200	V
Average Forward Rectified Current	I _{F(AV)}	10	А
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	160	А
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

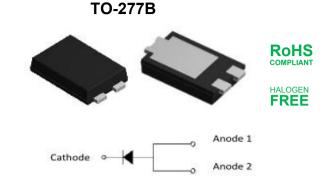
 T_A =25°C unless otherwise noted

Baramatar	Test Conditions	Symbol	Value		Unit
Parameter			Тур.	Max.	Unit
Forward Voltage@I _⊧ =10A	T _A =25℃	V	0.82	0.86	v
Forward Voltage@1 _F =10A	T _A =125℃	V _F	0.7	0.73	v
Deverse Current @ \/	T _A =25℃	I _R	1	10	uA
Reverse Current @ V _{RRM}	T _A =125℃		0.6	5	mA
Typical Thermal Resistance (junction to ambient)		$R_{ extsf{ heta}JA}$	10	2	°C/W



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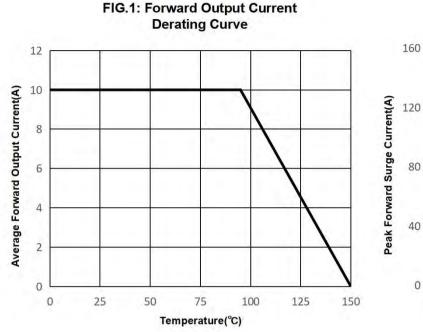


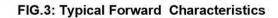
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RATINGS AND CHARACTERISTIC CURVES

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

100





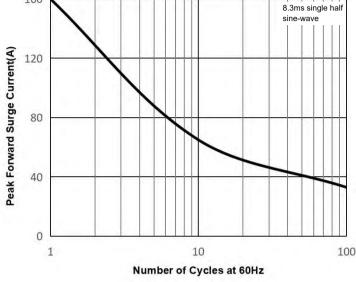
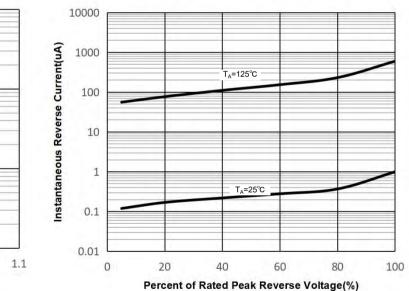


FIG.2: Maximum Non-Repetitive Peak

Forward Surge Current







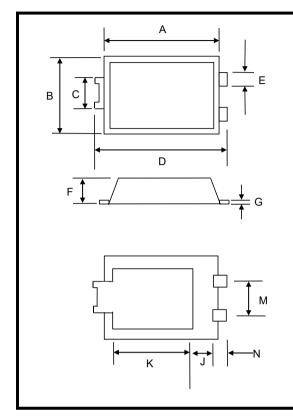
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Instantaneous Forward Current(A) 10 T_A=125°C 25°C 1 0.1 0.4 0.5 0.6 0.7 0.8 0.9 1 Instantaneous Forward Voltage(V)



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PACKAGE OUTLINE DIMENSIONS



		TO-277B		
-	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.)
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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