

Green Products

Technical Data Data Sheet N1377, Rev. B

MBR1060S SCHOTTKY RECTIFIER

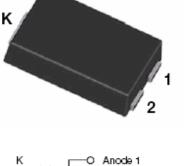
Applications:

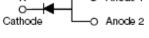
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Center tap configuration

Features:

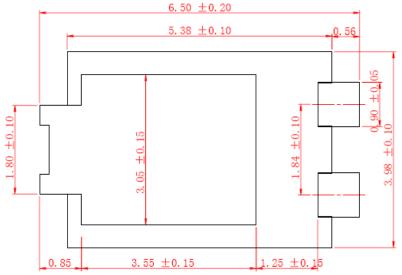
- Designed as Bypass Diodes for Solar Panels
- High Forward Surge Capability
- Ultra Low Forward Voltage Drop
- Excellent High Temperature Stability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In mm











TO-277B

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Marking Diagram:



Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MBR1060S	TO-277B(Pb-Free)	5000pcs/ reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V _{RWM}	-	60	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _C =80°C, rectangular wave form	10	A
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	200	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V _{F1}	@ 10A, Pulse, T _J = 25 °C	0.63	V
Reverse Current	I _{R1}	$@V_R = rated V_R$ T _J = 25 °C	1	mA
Junction Capacitance	Cj	@Vr = 5.0 V, Tc=25℃ fsig = 1MHz	850	pF

* Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Soldering Point	$R_{ heta JS}$	DC operation	1.5	°C/W
Maximum Thermal Resistance Junction to Case	$R_{ ext{ heta}JC}$	DC operation	2.3	°C/W
Approximate Weight	wt	-	0.08	g
Case Style		TO-277B		



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