

Technical Data Data Sheet N1561, Rev. -

MBR1550S SCHOTTKY RECTIFIER

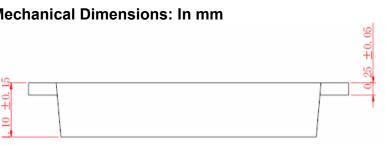
Applications:

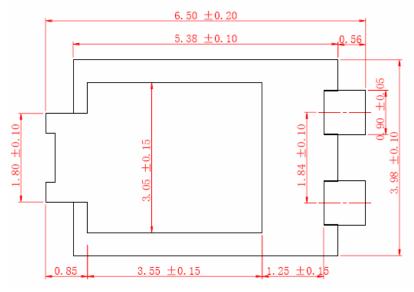
- Switching power supply
- Converters
- **Free-Wheeling diodes**
- **Reverse battery protection**
- Center tap configuration

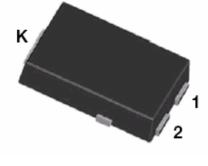
Features:

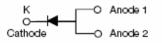
- **Designed as Bypass Diodes for Solar Panels** •
- **High Forward Surge Capability**
- Ultra Low Forward Voltage Drop
- **Excellent High Temperature Stability**
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In mm













MBR1550S

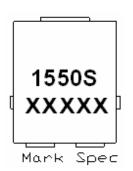
Green Products



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Marking Diagram:



Where XXXXX is YYWWL

15	= Forward Current (15A)
50	= Reverse Voltage (50V)
S	= Device Type
YY	= Year
WW	= Week
L	= Lot Number

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

Ordering Information:

Device	Package	Shipping
MBR1550S	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}	-	50	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _c =80°C, rectangular wave form	15	А
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	280	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V _{F1}	@ 15A, Pulse, T _J = 25 °C	0.52	V
Reverse Current	I _{R1}	$@V_{R} = rated V_{R}$	1	mA
		$T_J = 25 \ ^{\circ}C$		
	I _{R2}	$@V_{R} = rated V_{R}$	60	mA
		$T_J = 125^{\circ}C$		
Typical Junction	Cj	@V _R =5.0 V, Tc=25°C	850	pF
Capacitance		fsig = 1MHz		

* Pulse Width < 300µs, Duty Cycle <2%

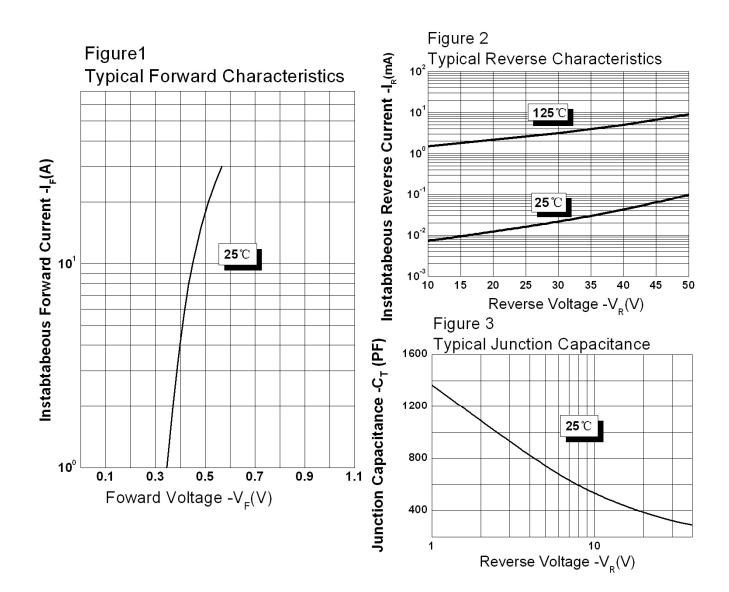
Thermal-Mechanical Specifications:

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 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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