

**Green Products** 

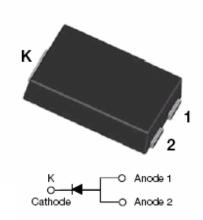
## MBR340S SCHOTTKY RECTIFIER

## **Applications:**

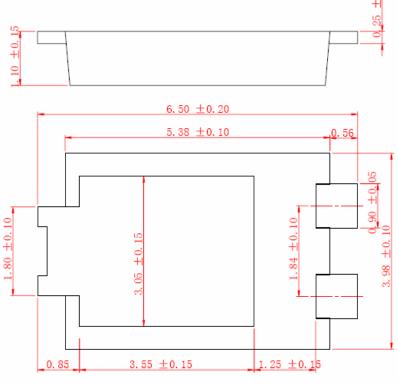
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Center tap configuration

#### Features:

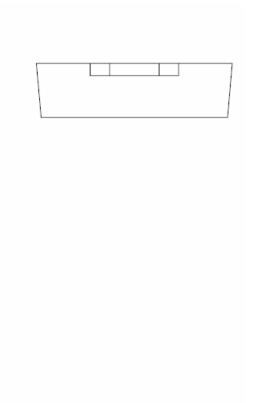
- Designed as Bypass Diodes for Solar Panels
- High Forward Surge Capability
- Ultra Low Forward Voltage Drop
- Excellent High Temperature Stability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request











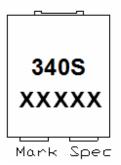
<sup>•</sup> Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

<sup>•</sup> FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •



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## **Marking Diagram:**



Where XXXXX is YYWWL

3 = Forward Current (3A) 40 = Reverse Voltage (40V)

S = Device Type
 YY = Year
 WW = Week
 L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

# **Ordering Information:**

Device	Package	Shipping
MBR340S	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	$V_{RWM}$	-	40	V
Average Forward Current	I <sub>F(AV)</sub>	50% duty cycle @T <sub>C</sub> =80°C, rectangular wave form	3	Α
Peak One Cycle Non- Repetitive Surge Current (per leg)	I <sub>FSM</sub>	8.3 ms, half Sine pulse	75	А

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### **Electrical Characteristics:**

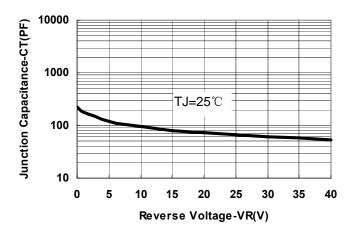
Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	$V_{F1}$	@ 3A, Pulse, T <sub>J</sub> = 25 °C	0.63	V
	$V_{F2}$	@ 3A, Pulse, T <sub>J</sub> = 125 °C	0.57	V
Reverse Current	I <sub>R1</sub>	@V <sub>R</sub> = rated V <sub>R</sub>	1.0	mA
		T <sub>J</sub> = 25 °C		
	I <sub>R2</sub>	$@V_R = rated V_R$	20	mA
		$T_{J} = 100^{\circ}C$		
Typical Junction	Cj	@V <sub>R</sub> = 5.0 V, Tc=25℃	200	pF
Capacitance		fsig = 1MHz		

<sup>\*</sup> Pulse Width < 300µs, Duty Cycle <2%

# **Thermal-Mechanical Specifications:**

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	$T_J$	-	-55 to +150	°C
Storage Temperature	$T_{stg}$	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	8.0	°C/W
Approximate Weight	wt	-	0.08	g
Case Style		TO-277B		

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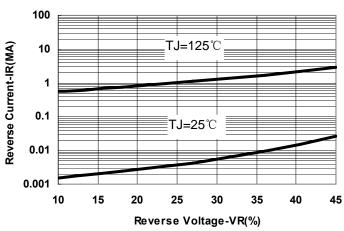


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

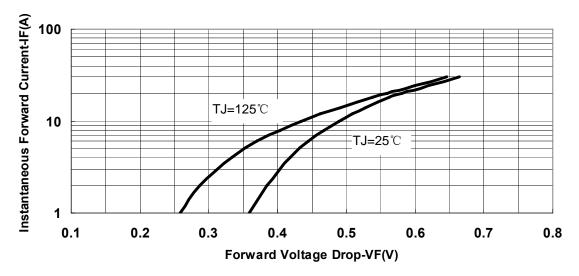


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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