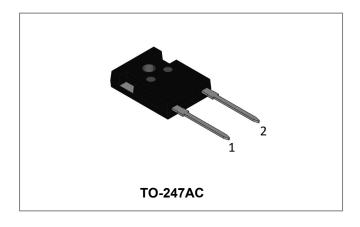


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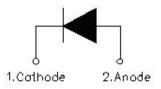
MBR60200W SCHOTTKY RECTIFIER



Features

- 150 °C T_J operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- Terminals finish: 100% Pure Tin
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Applications

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

Maximum Ratings(limiting values, at 25 °C unless otherwise specified)

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	200	V
Average Rectified Forward Current	I _{F (AV)}	Tc=133°C, In DC	75	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse	600	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 60 A, Pulse, T _J = 25 °C	0.92	0.95	V
	V _{F2}	@ 60 A, Pulse, T _J = 125 °C	0.78	0.80	V
Reverse Current*	I _{R1}	@V _R = rated V _R ,T _J = 25℃	0.0002	1	mA
	I _{R2}	@V _R = rated V _R ,T _J = 125℃	0.3	25	mA
Junction Capacitance	Ст	@ $V_R = 5V$, $T_C = 25^{\circ}C$, $f_{SIG} = 1MHz$	795	2000	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

 $^{^*}$ Pulse width < 300 μ s, duty cycle < 2%

- China Germany Korea Singapore United States •
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Technical Data Data Sheet N1808, Rev. C

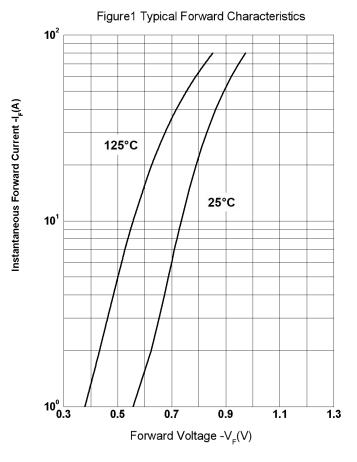


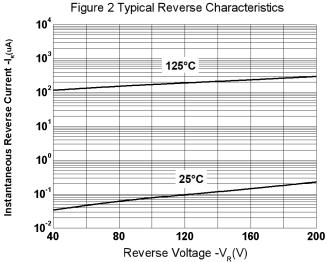


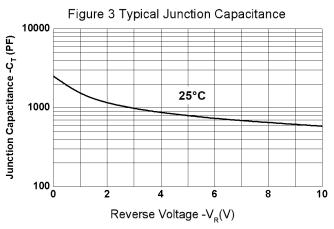
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_J	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	0.3	°C/W
Typical Thermal Resistance Junction to Ambient	$R_{ heta JA}$	DC operation	40	°C/W
Approximate Weight	wt	-	6.28	g
Case Style	TO-247AD			

Ratings and Characteristics Curves







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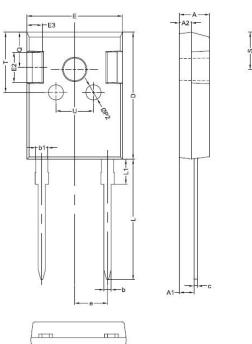


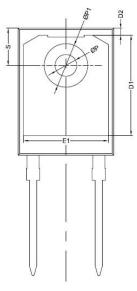
Technical Data Data Sheet N1808, Rev. C





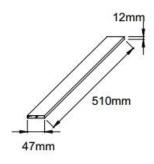
Mechanical Dimensions TO-247AC





SYMBOL	Millimeters				
STIVIBUL	MIN.	TYP.	MAX.		
Α	4.80	5.00	5.20		
A1	2.20	2.41	2.61		
A2	1.90	2.00	2.10		
b	1.10	1.20	1.35		
b1	1.80	2.00	2.20		
С	0.50	0.60	0.75		
D	20.30	21.00	21.20		
D1		16.58			
D2		1.17			
E	15.60	15.80	16.00		
E1		14.02			
E2		5.00			
E3		2.50			
е		5.44			
L	19.42	19.92	20.42		
L1		4.13			
Р	3.50	3.60	3.70		
P1	7.1	7.19	7.40		
P2		2.50			
Q		5.80			
Q S T	6.05	6.15	6.25		
Т		10.00			
U		6.20			

Tube Specification



Marking Diagram



Where XXXXX is YYWWL

MBR = Device Type
60 = Forward Current (60A)
200 = Reverse Voltage (200V)
W = Configuration
SSG = SSG

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping	
MBR60200W	TO-247AC(Pb-Free)	25pcs / tube	

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MBR60200W



Technical Data Data Sheet N1808, Rev. C





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