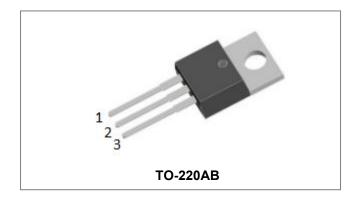


MBR60200CT

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MBR60200CT SCHOTTKY RECTIFIER



Base commor Cathode

Q 2

Features

- 175°C T_J operation
- Center tap configuration
- 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
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Applications

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Maximum Ratings:

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)}	50% duty cycle @Tc=110°C, rectangular wave form	30(Per Leg) 60(Per Device)	А
Peak One Cycle Non-Repetitive Surge Current(Per Leg)	I _{FSM}	8.3ms, Half Sine pulse, T _C = 25 °C	400	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop(Per Leg)*	V _{F1}	@ 30A, Pulse, T _J = 25 °C	0.93	0.97	V
	V _{F2}	@ 30A, Pulse, T _J = 125 °C	0.82	0.90	V
Reverse Current(Per Leg)*	I _{R1}	$@V_R = rated V_{R,} T_J = 25 \ ^{\circ}C$	0.005	1.0	mA
	I _{R2}	$@V_R = rated V_R, T_J = 125 \degree C$	0.3	11	mA
Junction Capacitance(Per Leg)	Ст	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	305	450	pF

* Pulse width < 300 μs, duty cycle < 2%

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Circuit Diagram



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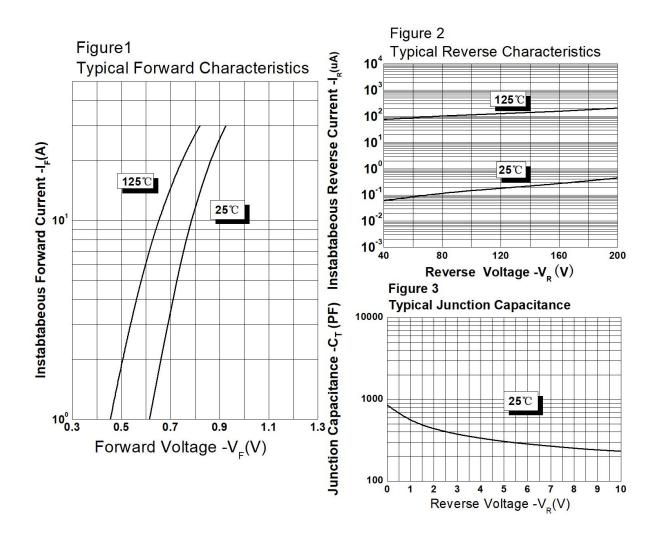
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RoHS 🔗

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +175	°C
Storage Temperature	T _{stg}	-	-55 to +175	°C
Typical Thermal Resistance Junction to Case	R _{θJC}	DC operation	2.0	°C/W
Typical Thermal Resistance Junction to Ambient	R _{0JA}	DC operation	50	°C/W
Typical Thermal Resistance, Case to Heat Sink	R _{0JS}	Mounting surface, smooth and greased	0.50	°C/W
Approximate Weight	wt	-	2	g

Ratings and Characteristics Curves



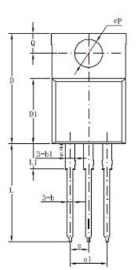
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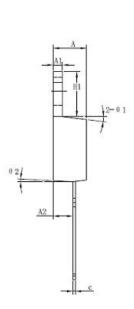


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Mechanical Dimensions TO-220AB

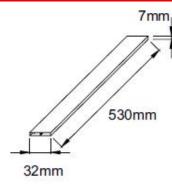






Symbol	Dimensions in millimeters			
	Min	Typical	Max	
Α	4.42	4.57	4.72	
A1	1.17	1.27	1.37	
A2	2.52	2.69	2.89	
b	0.71	0.81	0.96	
b1	1.17	1.27	1.37	
С	0.31	0.38	0.61	
D	14.94	15.24	15.54	
D1	8.85	9.00	9.15	
Е	10.01	10.16	10.31	
е		2.54		
e1	4.98	5.06	5.18	
H1	6.04	6.24	6.44	
L	12.7	13.56	13.80	
L1	3.56	3.5	3.96	
ΦΡ	3.74	3.84	4.04	
Q	2.54	2.74	2.94	
Θ1		7°		
Θ2		3°		
Θ3		4°		

Tube Specification



Marking Diagram



Where XXXXX is YYWWL

MBR 60

200

CT SSG

YY

Т

ww

- = Device Type = Forward Current (60A)
- = Reverse Voltage(200V)
- = Configuration
- = SSG
- = Year = Week
- = Lot Number

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

Ordering Information

Device	Package	Shipping	
MBR60200CT	TO-220AB (Pb-Free)	50 pcs/ tube	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

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