

Green Products

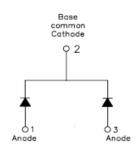
MBR60150CT SCHOTTKY RECTIFIER

Applications:

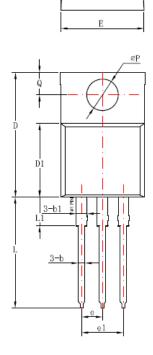
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

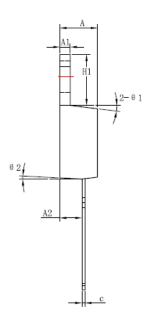
Features:

- 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



Mechanical Dimensions: In mm





	Dimensions in				
Symbol	millimeters				
	Min	Typical	Max		
Α	4.42	4.57	4.72		
A1	1.17	1.27	1.37		
A2	2.59	2.69	2.89		
b	0.71	0.81	0.96		
b1		1.27			
С	0.36	0.38	0.61		
D	14.94	15.24	15.54		
D1	8.85	9.00	9.15		
E	10.01	10.16	10.31		
е		2.54			
e1		5.06			
H1	6.04	6.24	6.44		
L	12.7	13.56	13.78		
L1		3.5			
ФР	3.74	3.84	4.04		
Q	2.54	2.74	2.94		
Θ1		7°			
Θ2		3°			
Θ3		4°			

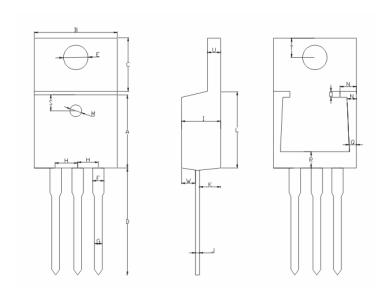
OPTION 1(HD)

[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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A:8,5±0,5	B: 9, 5 ± 0, 5	$C:6.4\pm0.5$	D:14.1±1
E: 3, 84 ± 0, 03	F: 1. 27±0.03	G:0.85±0.10	H:2.54±0.025
I:4.6±0.5	J:0.38±0.015	K:2.75±025	L:9.0±0.5
M; 1.5±0.05	N: 1, 8±0, 05	0:0.5±0.05	P:1.2±0.05
Q: 0, 9±0, 05	R: 3, 2±0, 05	S:1.55±0.05	T:2.8±0.15
U: 1. 27 ± 0, 05	W: 1.27±0.03		

OPTION 2(SR)

TO-220AB



Technical Data
Data Sheet N0778, Rev. Marking Diagram:

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Where XXXXX is YYWWL

MBR = Device Type

60 = Forward Current (60A) 150 = Reverse Voltage (150V)

CT = Configuration

SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
MBR60150CT	TO-220AB	FOnce / tube	
	(Pb-Free)	50pcs / tube	

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}	-	150	V
Max. Average Forward	I _{F(AV)}	50% duty cycle @T _C = 150°C, rectangular wave form	60	Α
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	tp = 10ms, sinusoidal	270	А

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Electrical Characteristics:

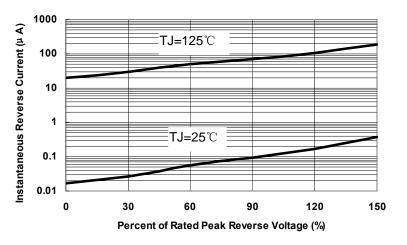
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@30A, Pulse, T _J = 25 °C	0.94	V
(per leg) *	V_{F2}	@30A, Pulse, T _J = 125 °C	0.76	V
Max. Reverse Current (per	I _{R1}	$@V_R = rated V_R$	1.0	mA
leg) *		T _J = 25 °C		
	I _{R2}	$@V_R = rated V_R$	10	mA
		T _J = 125 °C		

^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +175	°C
Max. Storage Temperature	T_{stg}	-	-55 to +175	°C
Maximum Thermal	R _{th(j-c)}	DC operation	1.0(per leg)	°C/W
Resistance Junction to Case			0.7(per device)	*C/VV
Approximate Weight	wt	-	2	g
Case Style		TO-220AB		

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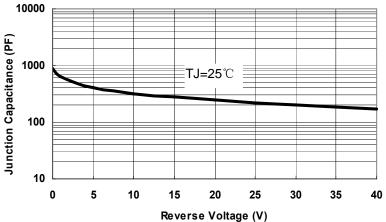


Fig.2-Typical Reverse Characteristics

Fig.1-Typical Junction Capacitance

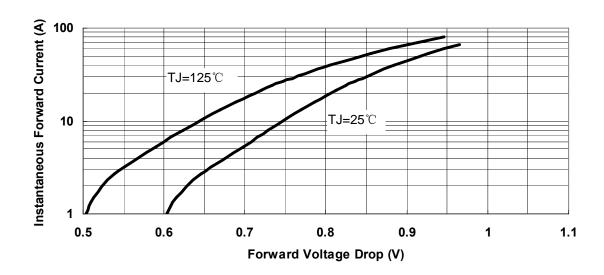


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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