Green Products

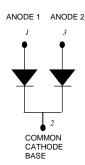
MBR80150WT SCHOTTKY RECTIFIER

Applications:

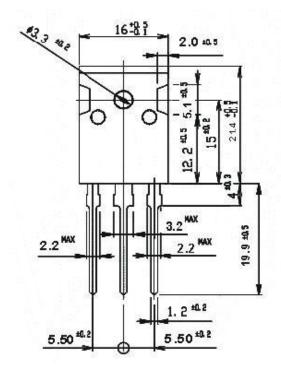
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Center tap configuration

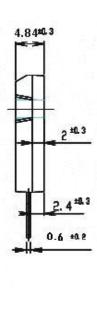
Features:

- 150°C T_J operation
- Center tap TO-247AD package
- 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/Inches



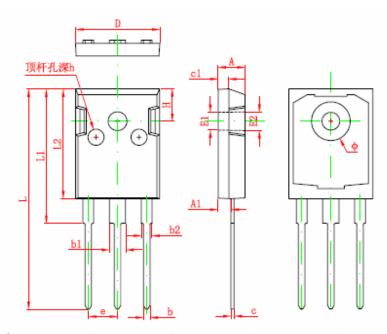


OPTION 1(SR)

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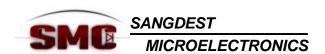
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Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	4.850	5.150	0.191	0.200
A1	2.200	2.600	0.087	0.102
b	1.000	1.400	0.039	0.055
b1	2.800	3.200	0.110	0.126
b2	1.800	2.200	0.071	0.087
С	0.500	0.700	0.020	0.028
c1	1.900	2.100	0.075	0.083
D	15.450	15.750	0.608	0.620
E1	3.500 REF		0.138 REF	
E2	3.600 REF		0.142 REF	
L	40.900	41.300	1.610	1.626
L1	24.800	25.100	0.976	0.988
L2	20.300	20.600	0.799	0.811
Φ	7.100	7.300	0.280	0.287
е	5.450 TYP		0.215	TYP
Н	5.980 REF		0.235 REF	
h	0.000	0.300	0.000	0.012

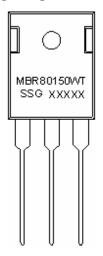
OPTION 2(CJ)

TO-247AD



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Marking Diagram:



Where XXXXX is YYWWL

MBR = Device Type

80 = Forward Current (80A) 150 = Reverse Voltage (150V)

WT = Configuration

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MBR80150WT	TO-247AD (Pb-Free)	30pcs/ 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 Current	I _{F(AV)}	rectangular d=0.5, @T _C =125 °C	80	А
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	900	А

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Electrical Characteristics:

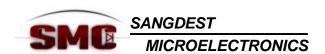
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage	V_{F1}	@ 40A, Pulse, T _J = 25 °C	0.90	V
Drop(per leg)*	V_{F2}	@ 40A, Pulse, T _J = 125 °C	0.75	V
Max. Reverse Current (per	I _{R1}	$@V_R = rated V_R$	2	mA
leg) *		T _J = 25 °C		
	I_{R2}	$@V_R = rated V_R$	40	mA
		T _J = 125 °C		
Max. Junction Capacitance	C _T	$@V_R = 5V, T_C = 25 °C$	1800	pF
(per leg)		f _{SIG} = 1MHz		
Max. Voltage Rate of Change	dv/dt	-	10,000	V/μs

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

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Case to heatsink	R _{thCH}	DC operation	0.25	K/W
Approximate Weight	wt	-	6.7	g
Case Style		TO-247AD		





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- .
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