

Green Products

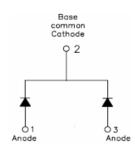
MBR2535CTL SCHOTTKY RECTIFIER

Applications:

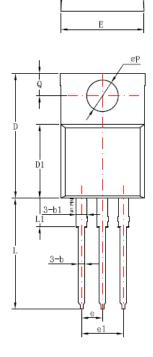
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

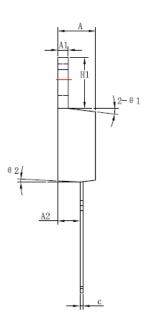
Features:

- 125 °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		
A 1	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		
Е	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°			

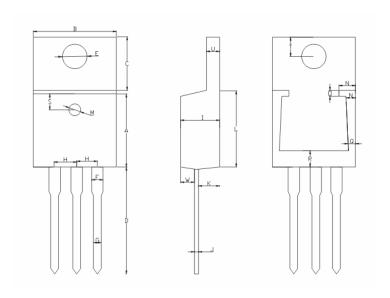
OPTION 1(HD)

[•] 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			

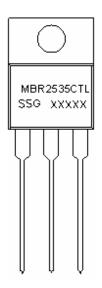
OPTION 2(SR)

TO-220AB



Technical Data
Data Sheet N1014, Rev. Marking Diagram:

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Where XXXXX is YYWWL

MBR = Device Type

25 = Forward Current (25A) 35 = Reverse Voltage (35V)

CTL = Configuration

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
MBR2535CTL	TO-220AB	FOrce / 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}	-	35	V
Max. Average Forward Current (per device)	I _{F(AV)}	50% duty cycle @T _C = 90°C, rectangular wave form	25	А
Peak Repetitive Forward Current	I _{FRM}	Rated V _R , square wave, 20kHz,TC=90°C	25	А
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	150	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg) *	V_{F1}	@ 12.5A, Pulse, T _J = 25 °C	0.47	V
	V_{F2}	@ 12.5A, Pulse, T _J = 125 °C	0.41	V
Max. Reverse Current (per leg) *	I _{R1}	$@V_R = \text{rated } V_R \text{ Pulse}$ $T_J = 25 ^{\circ}\text{C}$	1.0	mA
	I _{R2}	$@V_R = \text{rated } V_R$, Pulse $T_J = 125 ^{\circ}\text{C}$	500	mA
Max. Voltage Rate of Change	dv/dt	-	10,000	V/μs

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

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +125	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	2.0	°C/W
Approximate Weight	wt	-	1.85	g
Case Style	D ² PAK			

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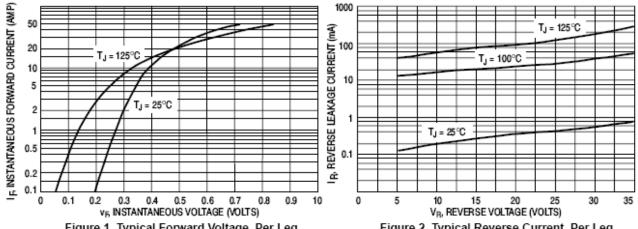
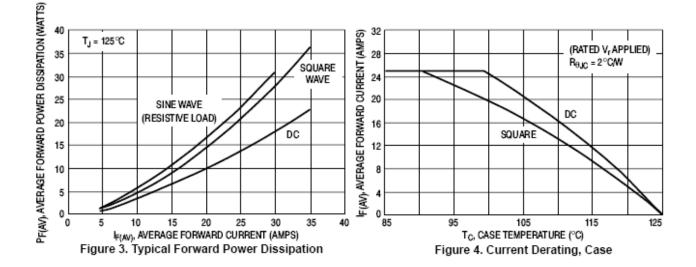


Figure 1. Typical Forward Voltage, Per Leg

Figure 2. Typical Reverse Current, Per Leg



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