

Green Products

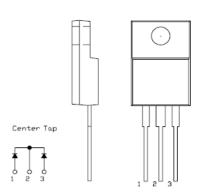
MBRF15200CT SCHOTTKY RECTIFIER

Applications:

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

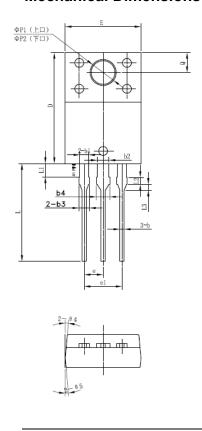
Features:

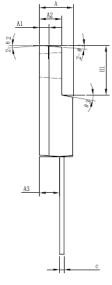
- 150 °C T_J operation
- Center tap configuration
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- This is a Pb Free Device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



OUTLINE DRAWING

Mechanical Dimensions: In mm





SYMBOL	MIN.	TYP.	MAX.
Α	4.30	4.50	4.70
A A1	1 10	1.30	1.50
A2 A3 b	2.80 2.50 0.50 1.10	3.00 2.70 0.60 1.20	3.20
A3	2.50	2.70	2.90
b	0.50	0.60	0.75
b1	1.10	1.20	1.35
b2	1.50	1.60	3.20 2.90 0.75 1.35 1.75
b3	1.20	1.30	1.45
b4	1.60	1.70 0.60	1.85
b4 c D E	0.55	0.60	0.75
D	14.80	15.00 10.16 2.55 5.10	15.20
E	9.96	10.16	10.36
е		2.55	
e1		5.10	
H1 L	6.50	6.70	6.90
L	12.70	13.20	13.70
L1	1.60	1.80	2.00
L1 L2 L3	0.80	1.80 1.00 0.80	1.20
L3	0.60	0.80	1.00
ΦΡ1(├.□)	3.30	3.50	2.00 1.20 1.00 3.70
ΦP2 (下口)	2.99	3.19	3.39
Q	2.50	2.70	2.90
Θ1		5°	
Q Θ1 Θ2		3.19 2.70 5° 4° 10°	
Θ3 Θ4		10°	
Θ4		5°	
Θ5		5°	

ITO-220AB (HD)

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •



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Marking Diagram:



Where XXXXX is YYWWL

MBR = Device Type F = Package type

15 = Forward Current (15A) 200 = Reverse Voltage (200V)

CT = Configuration

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MBRF15200CT	ITO-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 Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}$	-	200	V
Average Forward Current (per device)	I _{F(AV)}	50% duty cycle @T _C = 105°C, rectangular wave form	15	Α
Peak One Cycle Non-Repetitive Surge Current(per leg)	I _{FSM}	8.3 ms, half Sine pulse	130	Α

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V_{F1}	@ 7.5 A, Pulse, T _J = 25 °C	0.98	V
(per leg) *	V_{F2}	@ 7.5 A, Pulse, T _J = 125 °C	0.88	V
Reverse Current (per leg) *	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}C$	1.00	mA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125 ^{\circ}\text{C}$	15.0	mA
Junction Capacitance (per leg)	Ст	$@V_R = 5V, T_C = 25 °C$ $f_{SIG} = 1MHz$	150	pF

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

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	3.5	°C/W
Approximate Weight	wt	-	2	g
Case Style		ITO-220AB		

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