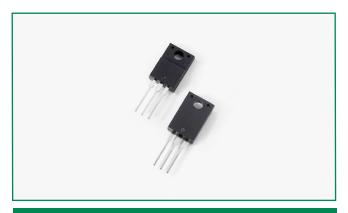
Schottky Barrier Rectifier MBRF30200CT, 2x 15A, 200V, ITO-220AB, Common Cathode

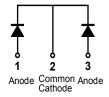
MBRF30200CT







Pin out



Description

Littelfuse MBR series Schottky Barrier Rectifier is designed to meet the general requirements of commercial applications by providing high temperature, low leakage and low V_F products.

It is suitable for high frequency switching mode power Supply, free-wheeling diodes and polarity protection diodes.

Features

- High junction temperature capability
- Guard ring for enhanced ruggedness and long term reliability
- Low forward voltage drop
- High frequency operation
- Common cathode configuration in electrically isolated ITO-220AB package

Applications

- Switching mode power supply
- Free-wheeling diodes
- DC/DC converters
- Polarity protection diodes

Maximum Ratings

Parameters	Symbol Test Conditions		Max	Unit
Peak Inverse Voltage	V _{RWM}	-	200	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _C = 109°C, rectangular wave form	15 (per leg)	А
Average Forward Current			30 (total device)	
Peak Repetitive Forward Current(per leg)	I _{FRM}	Rated V_R square wave, 20KHz T_C = 133°C	20	А
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	Surge applied at rated load conditions halfwave, single phase,60Hz	150	А

Electrical Characteristics

Parameters	Symbol	Test Conditions	Max	Unit	
Forward Voltage Drop (per leg) *	V _{F1}	@ 15A, Pulse, T _J = 25 °C	0.90	V	
Forward voltage Drop (per leg)	V _{F2}	@ 15A, Pulse, T _J = 125 °C	0.75	V	
Reverse Current (per leg) *	I _{R1}	$@V_R = rated V_R T_J = 25 °C$	1.0	mA	
neverse Current (per leg)	I _{R2}	$@V_R = rated V_R T_J = 125 °C$	6.0	l IIIA	
Junction Capacitance (per leg) C.		$@V_R = 5V, T_C = 25 ^{\circ}C, _{fSI}G = 1MHz$	400	pF	
Voltage Rate of Change	dv/dt		10,000	V/µs	
RSM Isolation Voltage	RSM Isolation Voltage	Clip mounting, the epoxy body away from the heatsink edge by more than 0.110" along the lead direction.	4500		
$(t = 1.0 \text{ second}, R. H. < =30\%, T_A = 25 °C)$	V _{ISO}	Clip mounting, the epoxy body is inside the heatsink.	3500	V	
		Screw mounting, the epoxy body is inside the heatsink.	1500		

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



Thermal-Mechanical Specifications

Parameters	Symbol	Test Conditions	Max	Unit
Junction Temperature	T _J		-55 to +150	°C
Storage Temperature	T _{stg}		-55 to +150	°C
Maximum Thermal Resistance Junction to Case (per leg) *	R _{thJC}	DC operation	3.3	°C/W
Approximate Weight	wt		2	g
Case Style	ITO-220AB			

^{*} The measurement point of case temperature is at the central point of top surface.

Figure 1: Forward Current Derating Curve

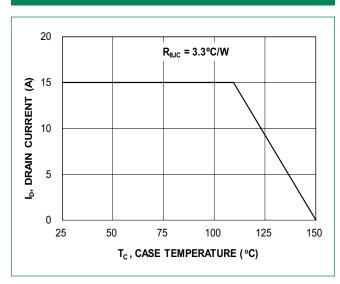


Figure 2: Typical Forward Characteristics

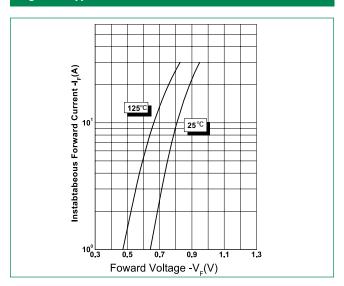


Figure 3: Typical Reverse Characteristics

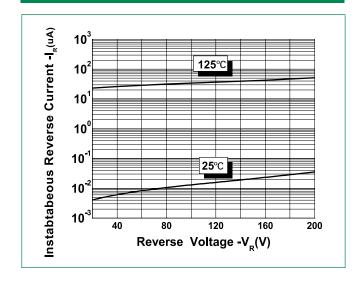
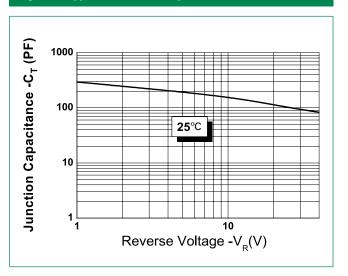
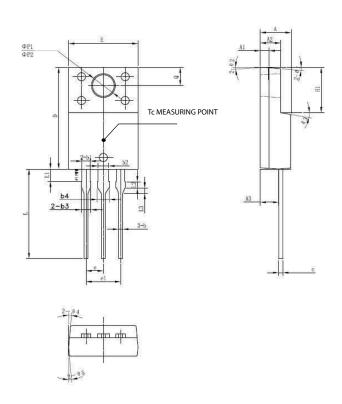


Figure 4: Typical Junction Capacitance



Schottky Barrier Rectifier MBRF30200CT, 2x 15A, 200V, ITO-220AB, Common Cathode

Dimensions-ITO-220AB

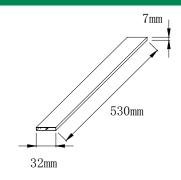


Symbol	Millimeters			
Symbol	Min	Тур	Max	
Α	4.30	4.50	4.70	
A1	1.10	1.30	1.50	
A2	2.80	3.00	3.20	
А3	2.50	2.70	2.90	
b	0.50	0.60	0.75	
b1	1.10	1.20	1.35	
b2	1.50	1.60	1.75	
b3	1.20	1.30	1.45	
b4	1.60	1.70	1.85	
С	0.55	0.60	0.75	
D	14.80	15.00	15.20	
E	9.96	10.16	10.36	
е		2.55		
e1		5.10		
H1	6.50	6.70	6.90	
L	12.70	13.20	13.70	
L1	1.60	1.80	2.00	
L2	0.80	1.00	1.20	
L3	0.60	0.80	1.00	
ØP1	3.30	3.50	3.70	
ØP2	2.99	3.19	3.39	
Q	2.50	2.70	2.90	
θ1		5°		
θ2		4°		
θ 3		10°		
θ 4		5°		
θ 5		5°		

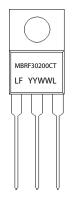
Packing Options

Part Number	Marking	Packing Mode	M.O.Q	
MBRF30200CT	MBRF30200CT	50pcs / Tube	1000	

Tube Specification



Part Numbering and Marking System



MBR = Device Type
F = Package type
30 = Forward Current (30A)
200 = Reverse Voltage (200V)

200 = Forward Curre 200 = Reverse Volta CT = Configuration LF = Littelfuse YY = Year

WW = Week
L = Lot Number

单击下面可查看定价,库存,交付和生命周期等信息

>>Littelfuse(美国力特)