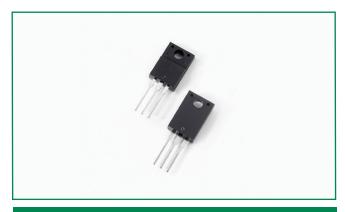
Schottky Barrier Rectifier MBRF10200CT, 2x 5A, 200V, ITO-220AB, Common Cathode

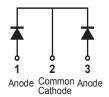
MBRF10200CT







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 =105°C, rectangular wave form	5 (per leg)	A
Average Fol Ward Current			10 (total device)	
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	128	А

Electrical Characteristics

Parameters	Symbol	Test Conditions	Max	Unit	
Forward Voltage Drop (per leg) *	V_{F1}	@ 5A, Pulse, T _J = 25 °C	0.98	V	
Foi ward voitage Drop (per leg)	V _{F2}	@ 5A, Pulse, T _J = 125 °C	0.78	V	
Reverse Current at DC condition (per leg)	I _{R1}	$@V_R = rated V_R T_J = 25 °C$	1.0	mA	
Reverse Current (per leg) *	I _{R2}	$@V_R = rated V_R T_J = 125 ^{\circ}C$	7.0	IIIA	
Junction Capacitance (per leg)	C_{T}	$@V_R = 5V, T_C = 25 ^{\circ}C f_{SIG} = 1MHz$	150	pF	
Typical Series Inductance (per leg)	L _s	Measured lead to lead 5 mm from package body	8.0	nH	
Voltage Rate of Change	dv/dt		10,000	V/µs	
RSM Isolation Voltage (t = 1.0 second, R. H. $<$ =30%, $T_A = 25$ °C)	VI Isolation Voltage	Clip mounting, the epoxy body away from the heatsink edge by more than 0.110" along the lead direction.	4500		
	V _{ISO}	Clip mounting, the epoxy body is inside the heatsink.	3500	V	
		Screw mounting, the epoxy body is inside the heatsink.	1500		

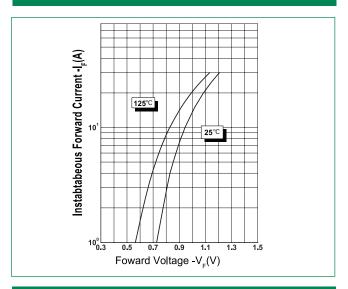
^{*} Pulse Width < 300µs, Duty Cycle <2%



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	4.5	°C/W
Approximate Weight	wt		2	g
Case Style	ITO-220AB			

Figure 1: Typical Forward Characteristics



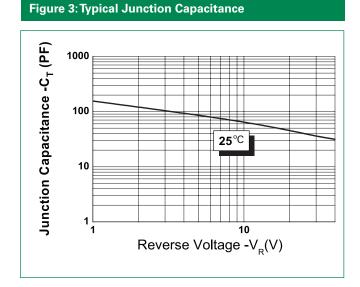
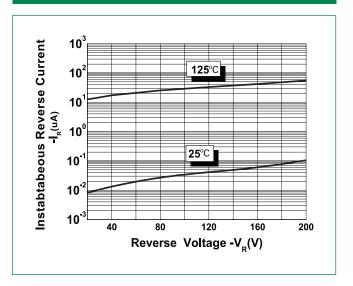
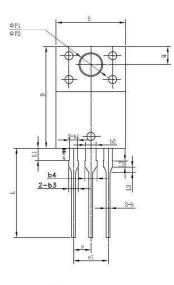


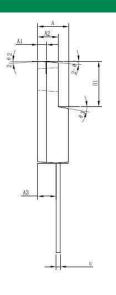
Figure 2: Typical Reverse Characteristics



Schottky Barrier Rectifier MBRF10200CT, 2x 5A, 200V, ITO-220AB, Common Cathode

Dimensions-ITO-220AB





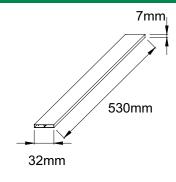


Symbol	Millimeters			
Зуптроі	Min	Тур	Max	
Α	4.30	4.50	4.70	
A1	1.10	1.30	1.50	
A2	2.80	3.00	3.20	
А3	2.50	2.70	2.90	
b	0.50	0.60	0.75	
b1	1.10	1.20	1.35	
b2	1.50	1.60	1.75	
b3	1.20	1.30	1.45	
b4	1.60	1.70	1.85	
С	0.55	0.60	0.75	
D	14.80	15.00	15.20	
E	9.96	10.16	10.36	
ее	-	2.55	-	
e1	-	5.10	-	
H1	6.50	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°	-	
θ 2	-	4°		
θ 3	-	10°	-	
θ 4	-	5°	-	
θ5	-	5°		

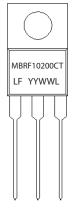
Packing Options

Part Number	Marking	Packing Mode	M.O.Q	
MBRF10200CT	MBRF10200CT	50pcs / Tube	1000	

Tube Specification



Part Numbering and Marking System



MBR = Device Type
F = Package type
10 = Forward Current (10A)
200 = Reverse Voltage (200V

200 = Reverse Voltage (200V)
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)