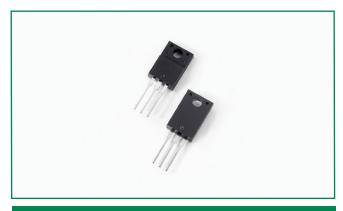
Schottky Barrier Rectifier MBRF20200CT, 2x 10A, 200V, ITO-220AB, Common Cathode

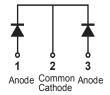
MBRF20200CT







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	10(per leg)	A
Average Forward Current			20(per device)	
Peak Repetitive Forward Current (per leg)	I _{FRM}	Rated V _R , Square wave,20KHz, @T _c =90°C	20	А
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	150	A

Electrical Characteristics

Parameters	Symbol Test Conditions		Max	Unit	
Forward Voltage Drop (per leg) *	V _{F1}	@ 10A, Pulse, T _J = 25 °C	0.95	V	
Tol ward voltage brop (per leg)	V_{F2}	@ 10A, Pulse, T _J = 125 °C	0.85	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}	$@V_R = rated V_R T_J = 125 °C$		IIIA	
Junction Capacitance (per leg)	C_{T}	$@V_R = 5V, T_C = 25 ^{\circ}C f_{SIG} = 1MHz$	300	pF	
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		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 +175	°C
Storage Temperature	T _{stg}		-55 to +175	°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

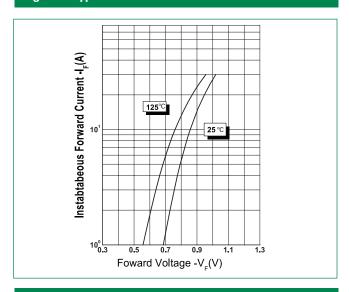


Figure 3: Typical Junction Capacitance

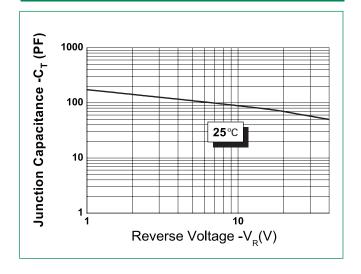
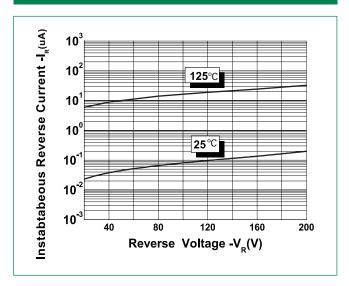
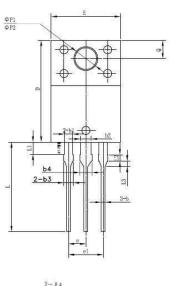


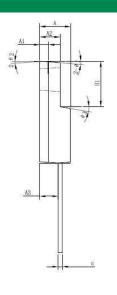
Figure 2: Typical Reverse Characteristics



Schottky Barrier Rectifier MBRF20200CT, 2x 10A, 200V, ITO-220AB, Common Cathode

Dimensions-ITO-220AB





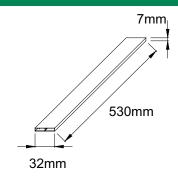


Symbol	Millimeters			
Зутпрог	Min	Тур	Max	
Α	A 4.30		4.70	
A1	1.10	1.30	1.50	
A2	2.80	3.00	3.20	
А3	2.50	2.70	2.90	
b	0.50	0.60	0.75	
b1	1.10	1.20	1.35	
b2	1.50	1.60	1.75	
b3	1.20	1.30	1.45	
b4	1.60	1.70	1.85	
С	0.55	0.60	0.75	
D	14.80	15.00	15.20	
E	9.96	10.16	10.36	
е	е			
e1		5.10		
H1	6.50	6.70	6.90	
L	12.70	13.20	13.70	
L1	L1 1.60		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°		
θ 5		5°		

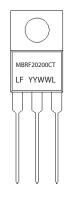
Packing Options

Part Number	Marking	Packing Mode	M.O.Q	
MBRF20200CT	MBRF20200CT	50pcs / Tube	1000	

Tube Specification



Part Numbering and Marking System



 MBR
 = Device Type

 F
 = Package type

 20
 = Forward Current (20A)

 200
 = Reverse Voltage (200V)

 CT
 = Configuration

 LF
 = Littelfuse

YY = Year
WW = Week
L = Lot Number

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