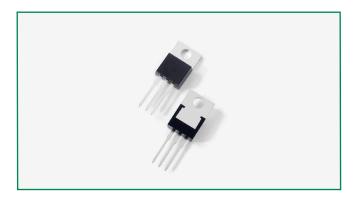
Schottky Barrier Rectifier MBR10200CT 2x 5A, 200V, TO-220AB Common Cathode

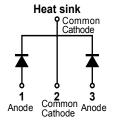
MBR10200CT







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 TO-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)	А	
Average Forward Current			10 (Per 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
Torward vortage Drop (per leg)	V_{F2}	@5A, Pulse, T _J = 125 °C	0.78	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}	$@V_R = rated V_R T_J = 125 ^{\circ}C$	7.0	l IIIA
Junction Capacitance (per leg)	C _T	$@V_R = 5V, T_C = 25 ^{\circ}C f_{SIG} = 1 MHz$	150	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

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

Schottky Barrier Rectifier MBR10200CT 2x 5A, 200V, TO-220AB Common Cathode

Thermal-Mechanical Specifications

Parameters	Symbol	Test Conditions	Max	Unit
Junction Temperature Range	T _J		-55 to +150	°C
Storage Temperature Range	T _{stg}		-55 to +150	°C
Maximum Thermal Resistance	R _{thJC}	DC operation	3.5 (Per leg)	°C/W
Junction to Case			1.75 (Per device)	
Maximum Thermal Resistance, Case to Heat Sink	R _{thCS}	Mounting surface, smooth and greased(only for TO-220)	0.5	°C/W
Approximate Weight	wt		2	g
Case Style	Style TO-220AB			

Figure 1: Typical Forward Characteristics

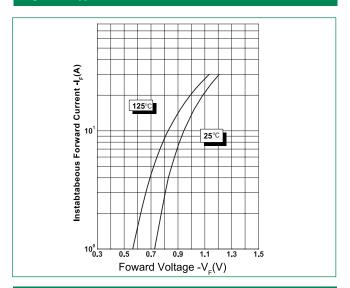


Figure 3: Typical Junction Capacitance

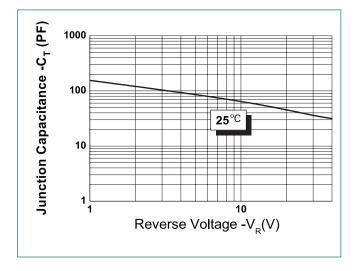
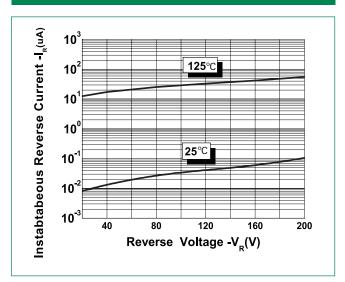
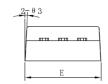


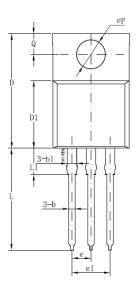
Figure 2: Typical Reverse Characteristics

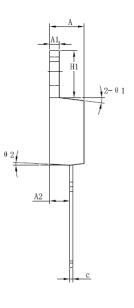


Schottky Barrier Rectifier MBR10200CT 2x 5A, 200V, TO-220AB Common Cathode

Dimensions-TO-220AB







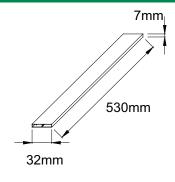
Symbol	Millimeters		
Зунион	Min	Max	
Α	3.56	4.83	
A1	0.51	1.40	
A2	2.03	2.92	
b	0.38	1.02	
b1	1.14	1.78	
С	0.31*	0.61	
D	14.22	16.51	
D1	8.38	9.15*	
E	9.65	10.67	
е	2.54	-	
e1	4.98*	-	
H1	5.84	6.86	
L	12.70	14.73	
L1	-	6.35	
øΡ	3.53	4.09	
Q	2.54	3.43	

Footnote *: The spec. does not comply with JEDEC spec.

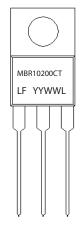
Packing Options

Part Number	Marking	Packing Mode	M.O.Q
MBR10200CT	MBR10200CT	50pcs / Tube	1000

Tube Specification



Part Numbering and Marking System



MBR = Device Type
10 = Forward Current (10A)
200 = Reverse Voltage (200V)
CT = Configuration
LF = Littelfuse
YY = Year
WW = Week
L = Lot Number

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Littelfuse manufacturer:

Other Similar products are found below:

MA4E2039 D1FH3-5063 MBR10100CT-BP MBR1545CT MMBD301M3T5G RB160M-50TR RB551V-30 BAS16E6433HTMA1 BAT
54-02LRH E6327 NSR05F40QNXT5G NTE555 JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W SK310-T SK32A-LTP SK34B-TP
SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G SB007-03C-TB-E SK32A-TP SK33B-TP
SK38B-TP NRVBM120LT1G NTE505 NTSB30U100CT-1G SS15E-TP VS-6CWQ10FNHM3 ACDBA1100LR-HF ACDBA1200-HF
ACDBA140-HF ACDBA2100-HF ACDBA3100-HF CDBQC0530L-HF CDBQC0240LR-HF ACDBA260LR-HF ACDBA1100-HF
SK310B-TP MA4E2502L-1246 MA4E2502H-1246 NRVBM120ET1G NSR01L30MXT5G NTE573 NTE6081 SB560 PMAD1108-LF
SD103ATW-TP