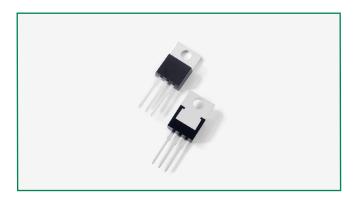
Schottky Barrier Rectifier MBR20150CT 2x 10A, 150V, TO-220AB Common Cathode

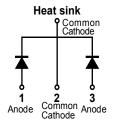
MBR20150CT







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} -		150	V
Maximum RMS Voltage	V _{RMS}	-	105	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _C = 125°C, rectangular wave form	10(Per leg)	А
Average Forward Current			20(Per device)	
Peak Repetitive Surge current (Rated V _R , Square Wave,20KHz)	I _{RRM}	-	1.0	А
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	150	А

Electrical Characteristics

Parameters	Symbol	Test Conditions	Max	Unit
Forward Voltage Drop (per leg) *	V _{F1}	@10A, Pulse, T _J = 25 °C	0.90	\/
i oi waru voitage Drop (per leg)	V _{F2}	@10A, Pulse, T _J = 125 °C	0.83	V
		$@V_{_{\rm R}} = {\rm rated} \ V_{_{\rm R}} T_{_{\rm J}} = 25 \ ^{\circ}{\rm C}$ 0.50 Max 0.01 Typ	0.50 Max	mA
Reverse Current (per leg) *	R1		0.01 Typ	
	I _{R2}	$@V_R = rated V_R T_J = 125 ^{\circ}C$	5.0	
Junction Capacitance (per leg)	C _T	$@V_R = 5V, T_C = 25 ^{\circ}C f_{SIG} = 1MHz$	400	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 MBR20150CT 2x 10A, 150V, TO-220AB Common Cathode

Thermal-Mechanical Specifications

Parameters	Symbol	Test Conditions	Max	Unit
Junction Temperature	T _J		-55 to +175	°C
Storage Temperature	T _{stg}		-55 to +150	°C
Maximum Thermal Resistance Junction to Case(per leg)	R _{thJC}	DC operation	1.5	°C/W
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	TO-220AB			

Figure 1: Typical Forward Characteristics

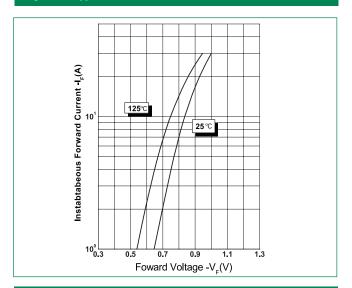


Figure 3: Typical Junction Capacitance

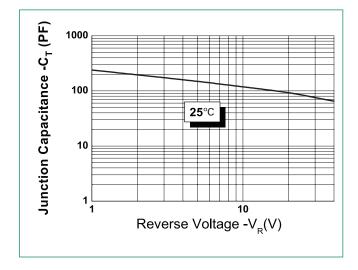
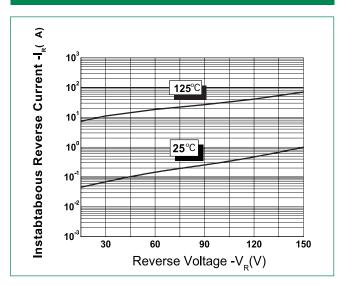
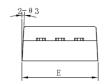


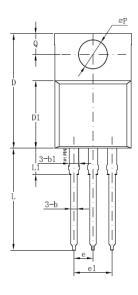
Figure 2: Typical Reverse Characteristics

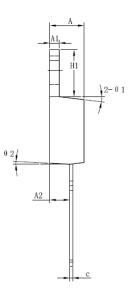


Schottky Barrier Rectifier MBR20150CT 2x 10A, 150V, TO-220AB Common Cathode

Dimensions-TO-220AB







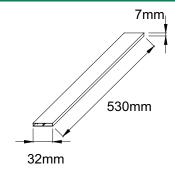
Millimeters			
Min	Max		
3.56	4.83		
0.51	1.40		
2.03	2.92		
0.38	1.02		
1.14	1.78		
0.31*	0.61		
14.22	16.51		
8.38	9.15*		
9.65	10.67		
2.54	-		
4.98*	-		
5.84	6.86		
12.70	14.73		
-	6.35		
3.53	4.09		
2.54	3.43		
	Min 3.56 0.51 2.03 0.38 1.14 0.31* 14.22 8.38 9.65 2.54 4.98* 5.84 12.70 - 3.53		

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

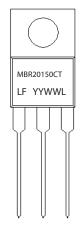
Packing Options

Part Number	Marking	Packing Mode	M.O.Q	
MBR20150CT	MBR20150CT	50pcs / Tube	1000	

Tube Specification



Part Numbering and Marking System



 MBR
 = Device Type

 20
 = Forward Current (20A)

 150
 = Reverse Voltage (150V)

 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)