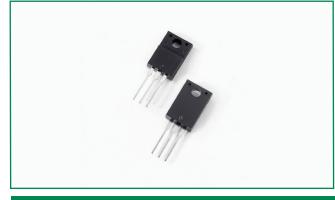
Schottky Barrier Rectifier MBRF2060CT 2x 10A, 60V, ITO-220AB, Common Cathode

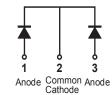
MBRF2060CT

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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 $V_{\rm F}$ 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

Applications

- Switching mode power supply
- Free-wheeling diodes

• High frequency operation

RoHS PO

• Common cathode configuration in electrically isolated ITO-220AB package

• DC/DC converters

• Polarity protection diodes

Maximum Ratings

Parameters	Symbol	Test Conditions	Max	Unit
Peak Inverse Voltage	V _{RWM}	-	60	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _c = 105°C, rectangular wave form	10 (per leg)	A
			20 (total device)	
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	0.8	V
Reverse Current (per leg) *	I _{R1}	$@V_{R} = rated V_{R} Pulse, T_{J} = 25 °C$	1.0	mA
Junction Capacitance (per leg)	C _T	$@V_{R} = 4V, T_{C} = 25 \text{ °C}, f_{SIG} = 1MHz$	400	pF
Voltage Rate of Change	dv/dt		10,000	V/µs
RSM Isolation Voltage (t = 1.0 second, R. H. < =30%, $T_A = 25 \text{ °C}$)		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	TJ		-55 to +150	°C
Storage Temperature	T _{stg}		-55 to +150	°C
Maximum Thermal Resistance Junction to Case	R _{thJC}	DC operation	2.3	°C/W
Typical Thermal Resistance Case to Heat Sink	R _{thCS}	Mounting surface, smooth and greased (only for ITO-220)	0.5	°C/W
Approximate Weight	wt		2	g
Case Style	ITO-220AB			

Figure 1: Typical Forward Characteristics

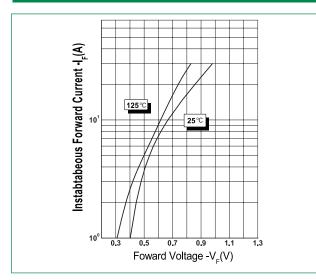


Figure 3: Typical Junction Capacitance

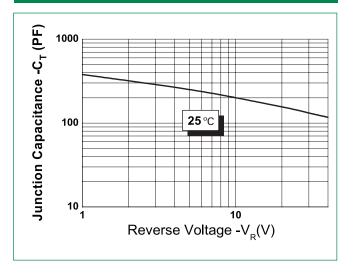
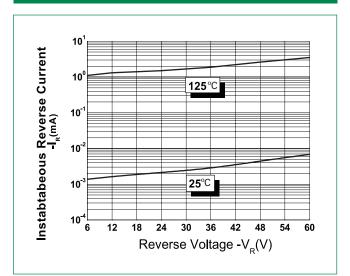
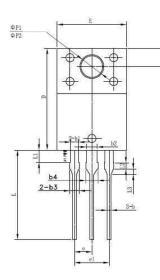


Figure 2: Typical Reverse Characteristics

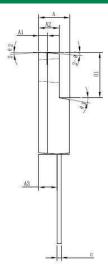




Dimensions- ITO-220AB



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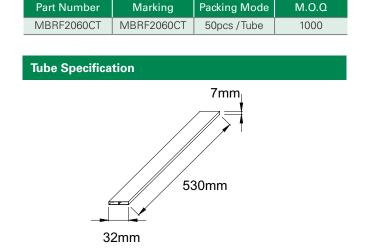


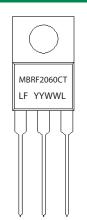
r	mhn	rdin
T	-ημ	offe

Packing Options

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		
A3	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		
C	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		
٥	2.50	2.70	2.90		
θ1	-	5°	-		
θ 2	-	4°	-		
θ 3	-	10°	-		
θ 4	-	5°	-		
θ5	-	5°			

Part Numbering and Marking System





MBR F = Device Type

20 60 CT LF

YΥ

L

WW

- = Package type = Forward Current (20A) = Reverse Voltage (60V)
- = Configuration
- = Littelfuse
- = Year
- = Week
- = Lot Number

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