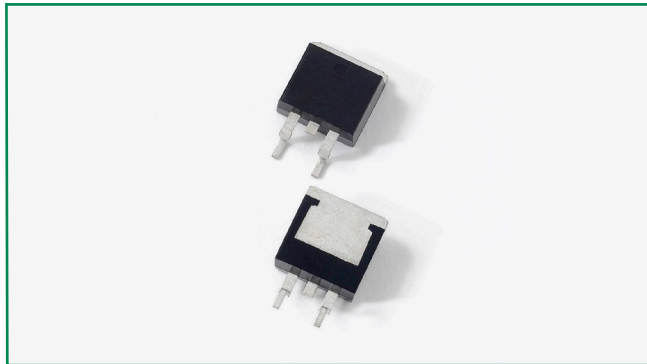
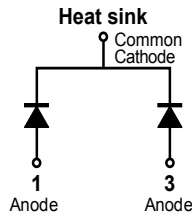


MBRB2060CT



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 surface mount TO-263 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}	-	60	V
Average Forward Current	$I_{F(AV)}$	50% duty cycle @ $T_C = 105^\circ\text{C}$, rectangular wave form	10 (per leg) 20 (total device)	A
RMS Forward Current	$I_{F(RMS)}$	-	22.2	A
Peak One Cycle Non-Repetitive Surge Current (per leg)	I_{FSM}	8.3 ms, half Sine pulse	180	A

Electrical Characteristics

Parameters	Symbol	Test Conditions	Max	Unit
Forward Voltage Drop (per leg) *	V_{F1}	@ 10A, Pulse, $T_J = 25^\circ\text{C}$	0.80	V
Reverse Current (per leg) *	I_{R1}	@ $V_R = \text{rated } V_R$ Pulse, $T_J = 25^\circ\text{C}$	1.0	mA
Junction Capacitance (per leg)	C_T	@ $V_R = 4\text{V}$, $T_C = 25^\circ\text{C}$ $f_{SIG} = 1\text{MHz}$	400	pF
Voltage Rate of Change	dv/dt		10,000	V/ μs

*Pulse Width < 300 μs , Duty Cycle < 2%

Thermal-Mechanical Specifications

Parameters	Symbol	Test Conditions	Max	Unit
Max. Junction Temperature	T_J		-55 to +150	°C
Max. 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	R_{thcs}	Mounting surface, smooth and greased	0.5	°C/W
Approximate Weight	wt		1.85	g
Case Style		D ² PAK (TO-263)		

Figure 1: Typical Forward Characteristics

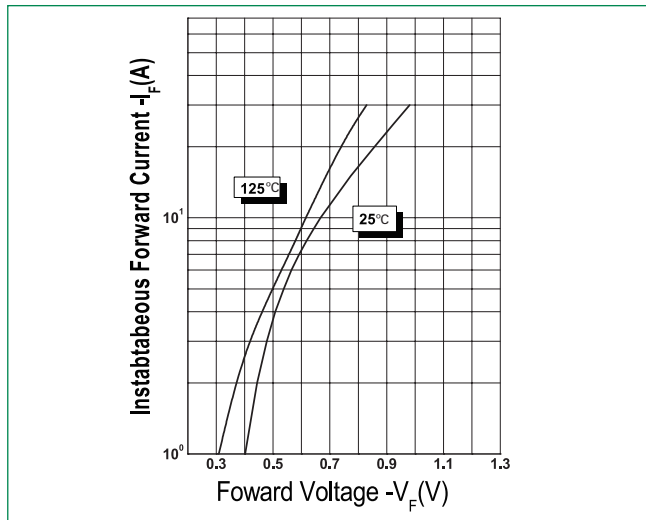


Figure 2: Typical Reverse Characteristics

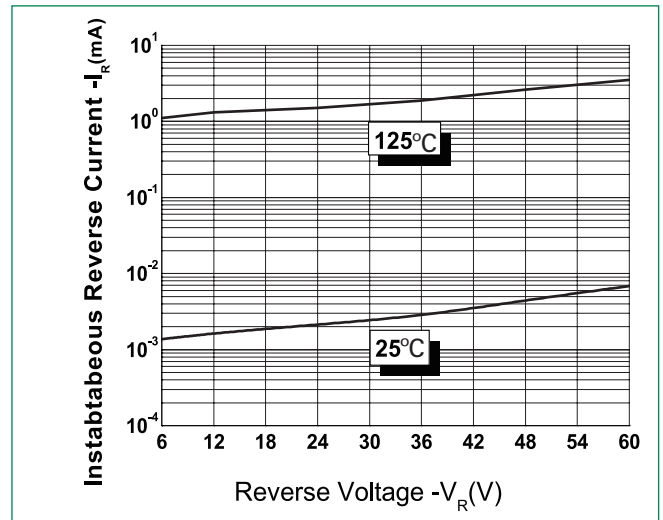
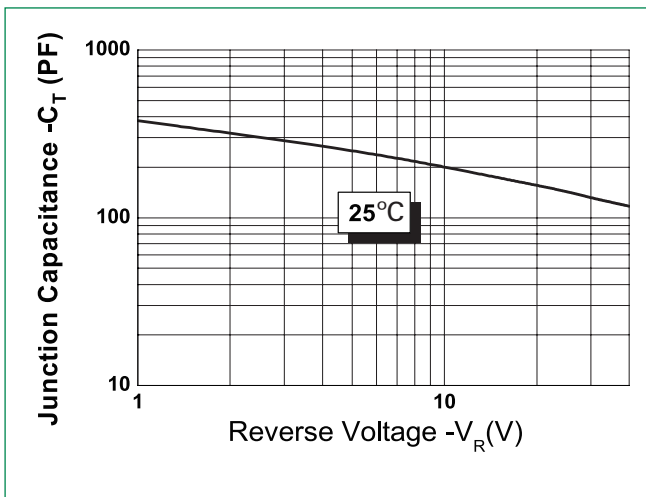
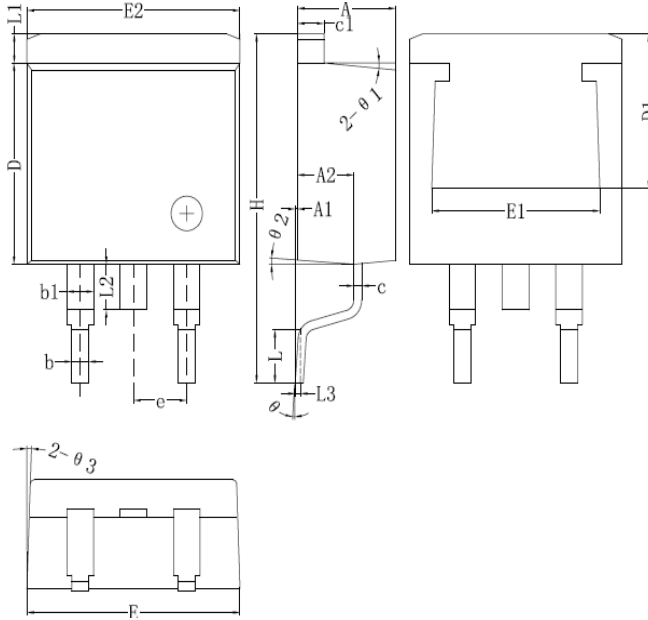


Figure 3: Typical Junction Capacitance



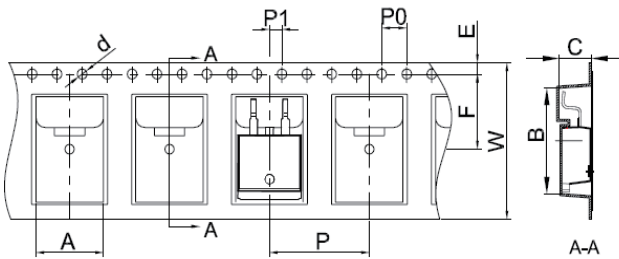
Dimensions-D²PAK(TO-263)



	Millimeters	
	Min	Max
A	4.06	4.83
A1	0.00	0.25
b	0.51	0.99
b1	1.14	1.78
c	0.31*	0.74
c1	1.14	1.65
D	8.38	9.65
D1	6.40*	-
E	9.65	10.67
E1	6.22	-
E2	9.65	10.67
e	2.54 BSC	
H	14.60*	15.88
L	1.78	2.79
L1	-	1.68
L2	-	1.78
L3	0.254 BSC	

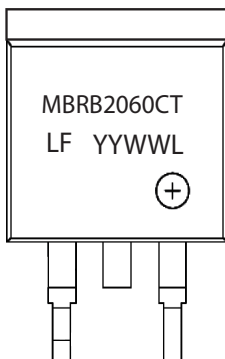
Footnote *: The spec. does not comply with JEDEC spec.

Carrier Tape & Reel Specification



Symbol	Millimeters	
	Min	Max
A	10.70	10.90
B	16.03	16.23
C	5.11	5.31
d	ø1.45	ø1.65
E	1.65	1.85
F	11.40	11.60
P0	3.90	4.10
P	15.90	16.10
P1	1.90	2.10
W	23.90	24.30

Part Numbering and Marking System



- MBR** = Device Type
- B** = Package type
- 20** = Forward Current (20A)
- 60** = Reverse Voltage (60V)
- CT** = Configuration
- LF** = Littelfuse
- YY** = Year
- WW** = Week
- L** = Lot Number

Packing Options

Part Number	Marking	Packing Mode	M.O.Q
MBRB2060CT	MBRB2060CT	800pcs / reel	800

单击下面可查看定价，库存，交付和生命周期等信息

[>>Littelfuse\(美国力特\)](#)