

## Schottky Diodes

### Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260

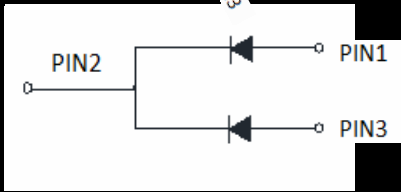
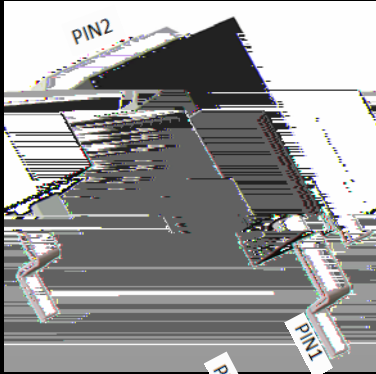
### Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

### Mechanical Data

**Package:** TO-263

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant



	MBRBU40100CT
	MBRBU40100CT
V	100
A	40
A	320
A <sup>2</sup> s	425
-	-55 ~ +150
-	-55 ~ +150

Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRBU40100CT
			I <sub>F</sub> = 20.0A	0.71
			V <sub>F</sub> = V <sub>RRM</sub>	0.2



# MBRBU40100CT-F2-W5094HF

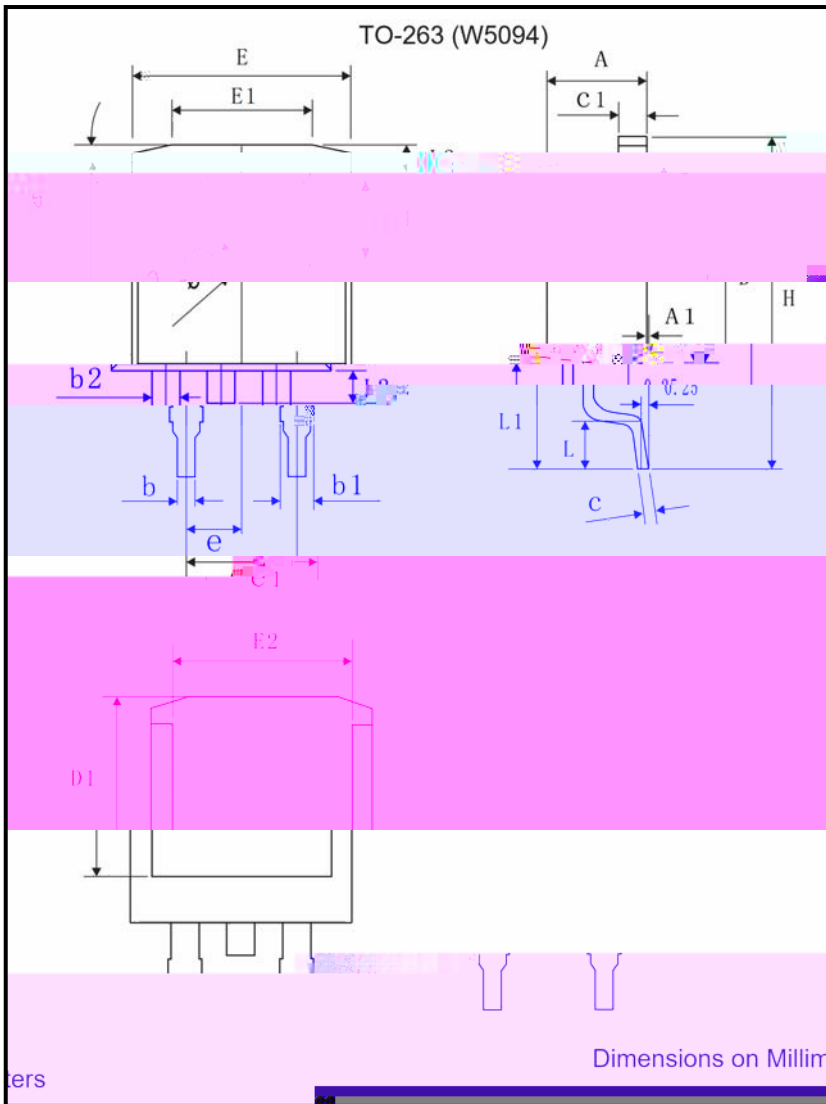
**Thermal Characteristics**  $T_a=25$  Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MBRBU40100CT
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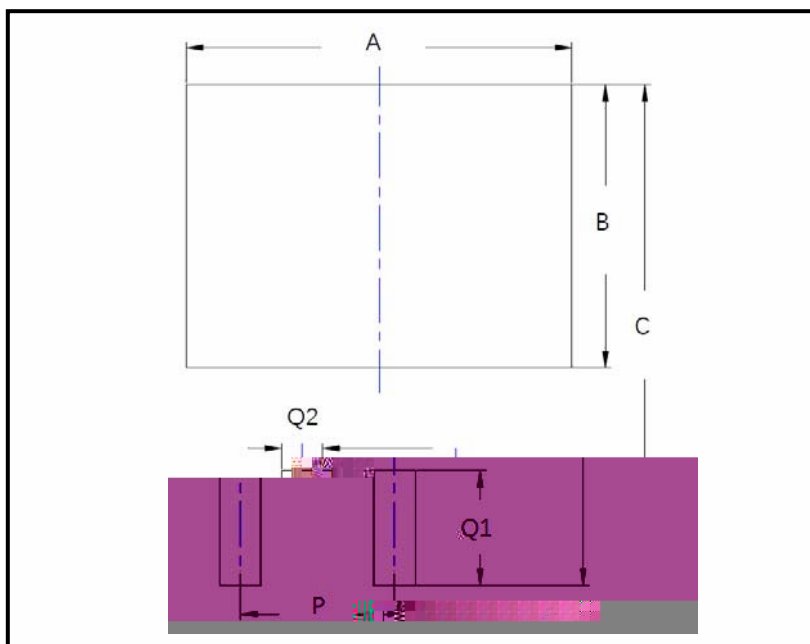
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## Outline Dimensions



TO-263		
Dim	Min	Max
A	4.30	4.70
A1	0.00	0.25
b	0.70	0.90
B1	1.17	1.37
B2	1.17	1.37
C	0.40	0.60
C1	1.25	1.35
D	9.00	9.20
D1	8.00	8.20
H	14.9	15.5
E	9.80	10.2
E1	6.30	6.50
E2	7.90	8.10
e1	4.93	5.23
L	1.85	2.45
L1	4.45	4.85
L2	1.30	1.70
L3	1.15	1.35
L4	4.50	4.60
∅	1.5 REF	
e	2.54 BSC	
∠	13°TYP	

## Suggested Pad Layout



Dim	Millimeters
A	12.7
B	9.4
C	16.6
P	5.08
Q1	3.8
Q2	1.35



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