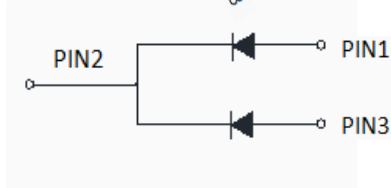
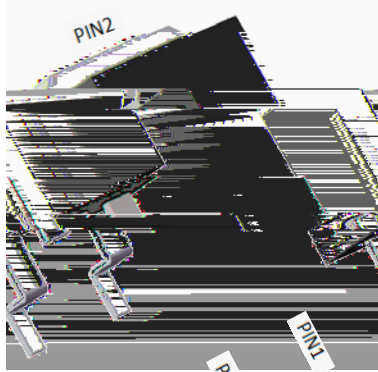


## Schottky Diodes

### Features

High frequency operation

Loz6 4 freewheeling diodes, and reverse battery protection



### Mechanical Data

**Package:** TO-263

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

**Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

**Polarity:** As marked

### Maximum Ratings ( $T_a=25$ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	MBRB40150CT
Device marking code				MBRB40150CT
Repetitive Peak Reverse Voltage		$V_{RRM}$	V	150
Average Rectified Output Current @60Hz sine wave, R-load, $T_c=107$		$I_O$	A	40
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25$		$I_{FSM}$	A	300
Surge(Non-repetitive)Forward Current @1ms, square wave, 1 time, $T_a=25$				600
Current Squared Time @1ms t 8.3ms $T_j=25$		$I^2t$	$A^2s$	373
Typical junction capacitance	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C.	$C_j$	pF	410
Storage Temperature		$T_{stg}$		-55 ~ +175
Junction Temperature		$T_j$		-55 ~ +175

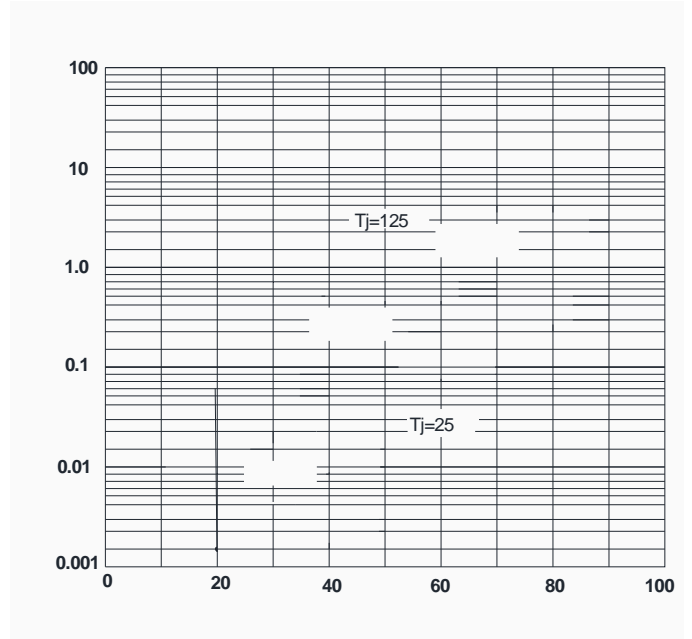


# MBRB40150CT

RoHS  
COMPLIANT

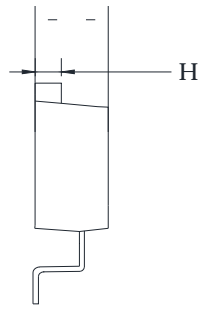
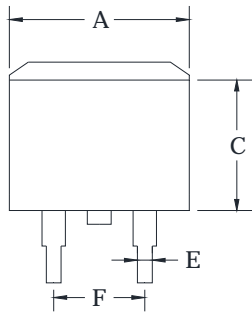
## Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=20.0A$ $T_a=25$	0.5	0.815	0.85
			$I_{FM}=20.0A$ $T_a=125$	-	0.68	0.72



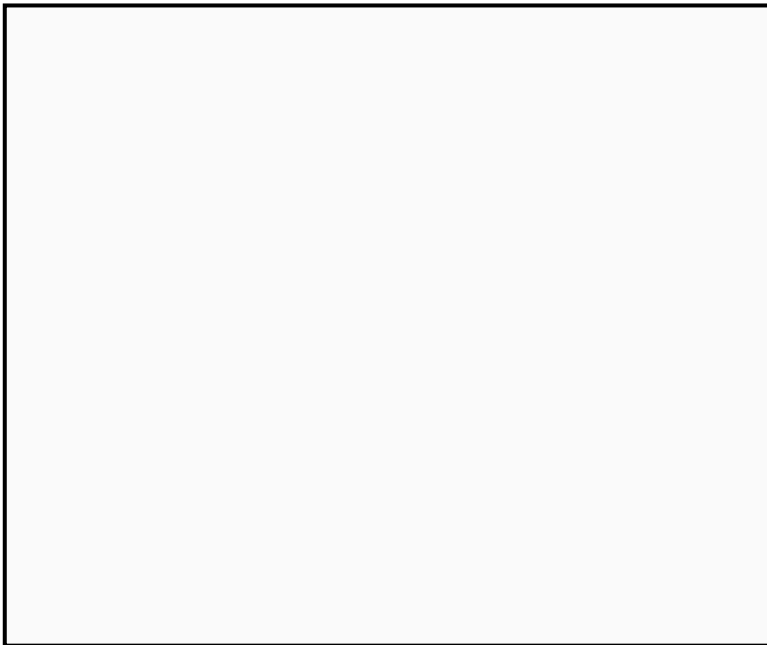


Outline Dimensions



TO-263		
Dim	Min	Max
A	9.5	11.5
B	9.7	10.5
C	8.4	9.0
D	0.28	0.64
E	0.68	0.94
F	4.55	5.6
G	4.04	5.10
H	1.14	1.4
I	0	0.2
J	4.9	6.05
K	1.79	2.79
L	7.3	7.9
M	6.2	6.8
N	7.6	8.2

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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**Disclaimer**

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