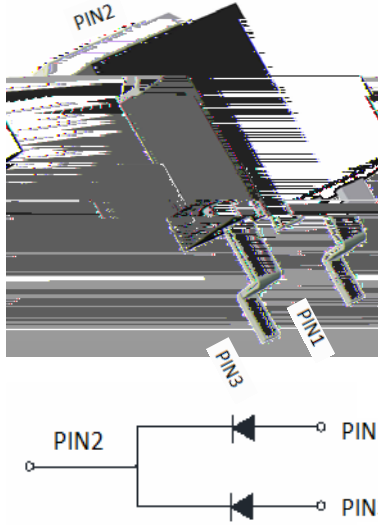


Schottky Diodes

Features

High frequency operation

Lop 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 ² s	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

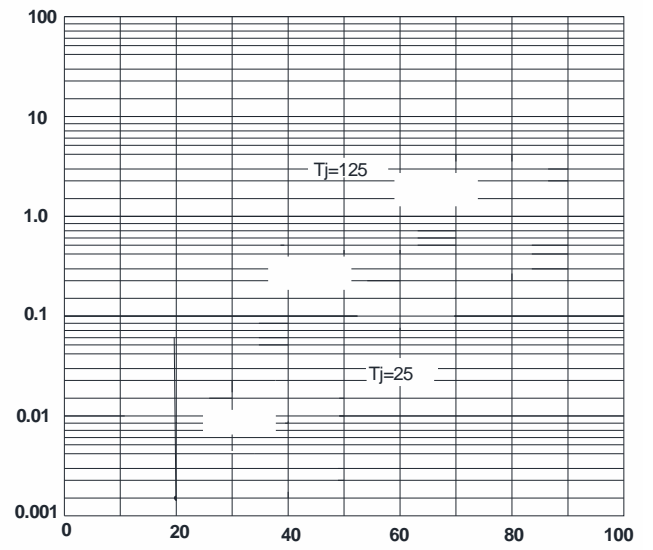


MBRB40150CT

RoHS
COMPLIANT

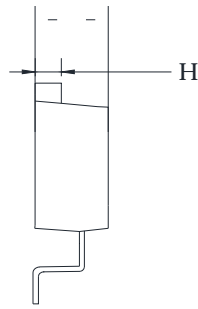
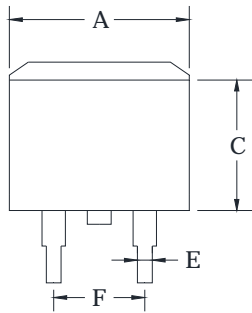
Electrical Characteristics $T_a=25$ Unless otherwise specified

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



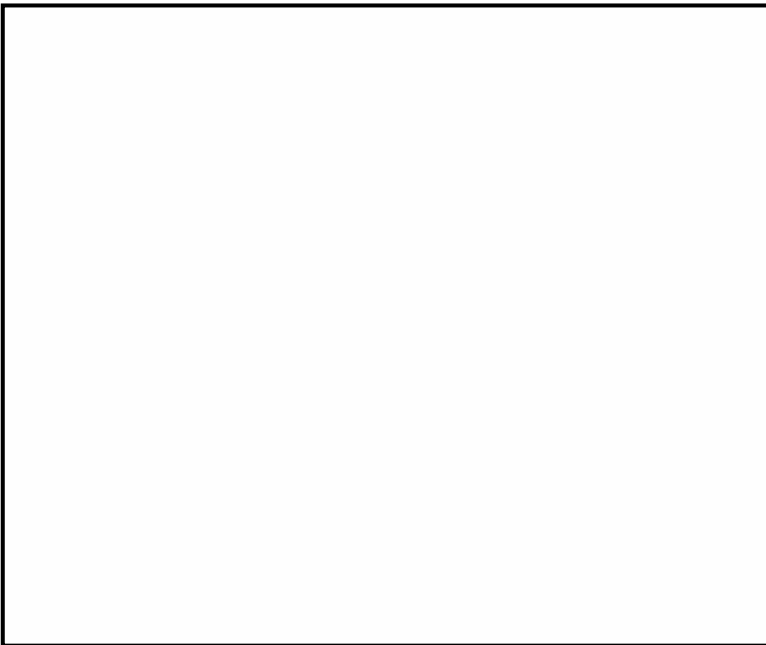


Outline Dimensions



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



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.