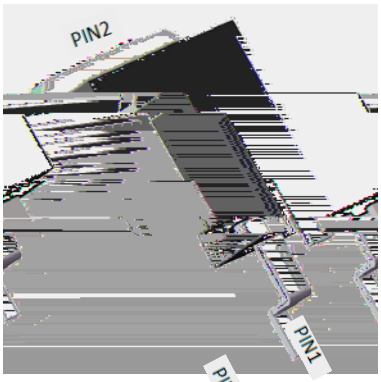
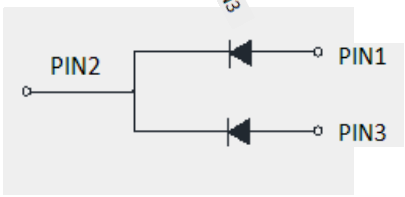
Schottky Diodes





Features

- High frequency operation
- Lom ʒ s, freewheeling diodes, and reverse battery protection.

Mechanical Data

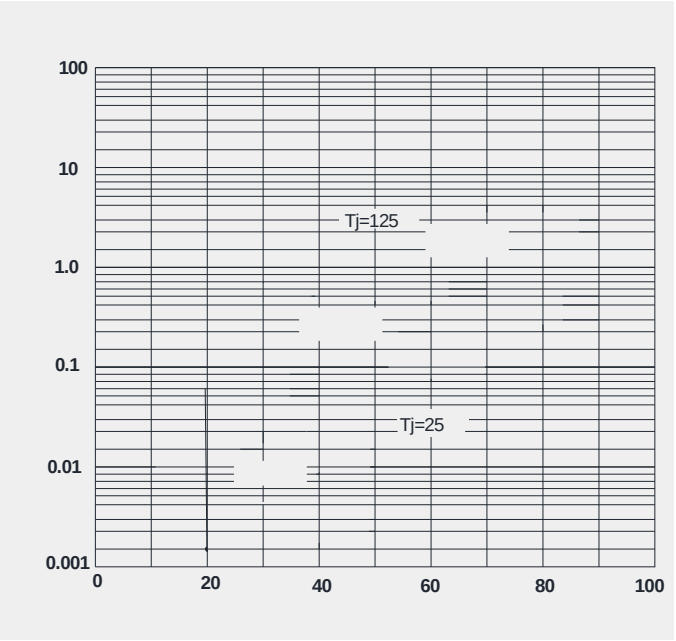
- **Package**: TO-263
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity**: As marked

■**Maximum Ratings** (T_a=25 Unless otherwise specified

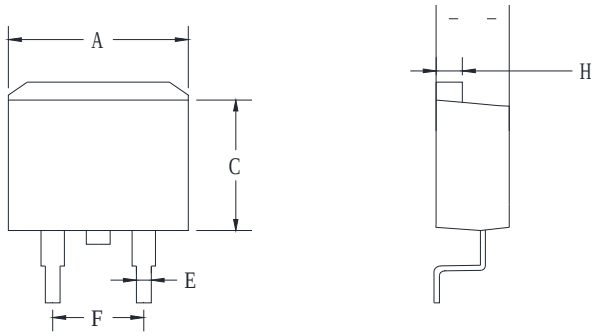
PARAMETER		SYMBOL	UNIT	MBRB40150CT
Device marking code				MBRB40150CT
Repetitive Peak Reverse Voltage		V_{RRM}	V	150
Average Rectified Output Current @60Hz sine wave, R-load, Tc=107		I_O	A	40
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25		I_{FSM}	A	300
Surge(Non-repetitive)Forward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

■**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 Ta=25	0.5	0.815	0.85
			I_{FM}=20.0A Ta=125	-	0.68	0.72


100
10
1.0
0.1
0.01
0.001
0
20
40
60
80
100
Tj=125
Tj=25

■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.