MHCHXM

MBR1080 THUR MBR10100

Dual High-Voltage Schottky Rectifiers

REV:1.01

Productor Character

- ◆ Half Bridge Rectified、Common Cathode Structure.
- ◆ Multilayer Metal -Silicon Potential Structure.
- ◆ Low Power Waste, High Efficiency.
- ◆ Beautiful High Temperature Character.
- ◆ Have Over Voltage protect loop, high reliability.
- ◆ RoHs Product.

Primary Use

- ● Low Voltage High Frequency Switching Power Supply.
- ● Low Voltage High Frequency Invers Circuit.
- ● Low Voltage Continued Circuit and Protection Circuit.

Summarize

■ MBR1080、MBR1090、MBR10100 Schottky diode, in the manufacture uses the main process technology includes: Silicon epitaxial substrate, P+ loop technology, The potential metal and the silicon alloy technology, the device uses the two chip, the common cathode, the plastic package structure.

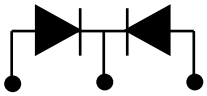
Typical Reference Data

VRRM= 80V
IF(AV)= 10A

VRRM= 90V
IF(AV)= 10A

VRRM= 100V
IF(AV)= 10A

Polarity



Absolute Maximum Ratings

Item	Symbol	MBR1080	MBR1090	MBR10100	Unit
Maximal Inverted Repetitive Peak Voltage	VRRM	80	90	100	V
Maximal DC Interdiction Voltage	VDC	80	90	100	V
Average Rectified Forward Current TC=150℃ Whole Device	IFAV	10			A
Unilateral		5			
Forward Peak Surge Current(Rated Load 8.3 Half Mssine Wave-According to JEDEC Method)	IFSM	150			A
Operating Junction Temperature	TJ	-40- +175			℃
Storage Temperature	TSTG	-40- +175			℃

Electricity Character

Item	Test Condition		Minimum	Representative	MBR1080	MBR1090	MBR10100	Unit
IR	TJ =25℃	VR=VRRM			100			uA
	TJ =125℃				1			mA
VF	TJ =25℃	IF=5A			0.83	0.86	0.88	V

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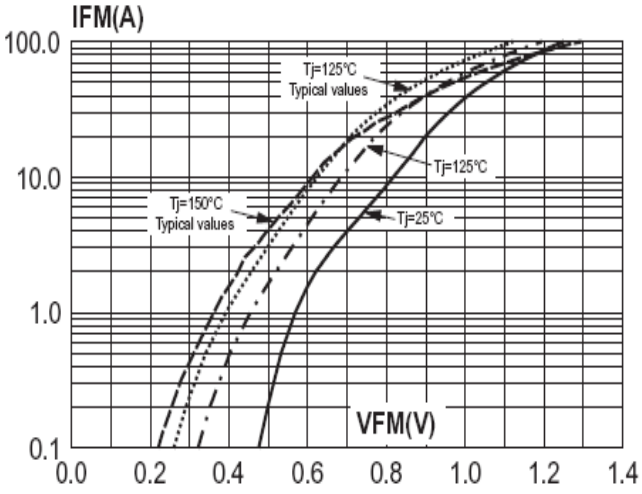
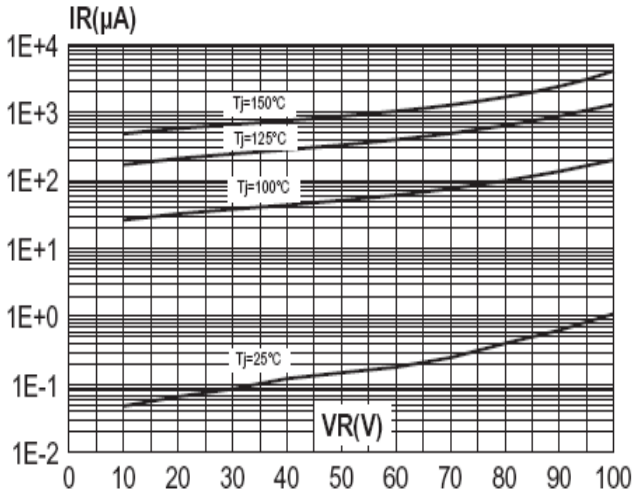
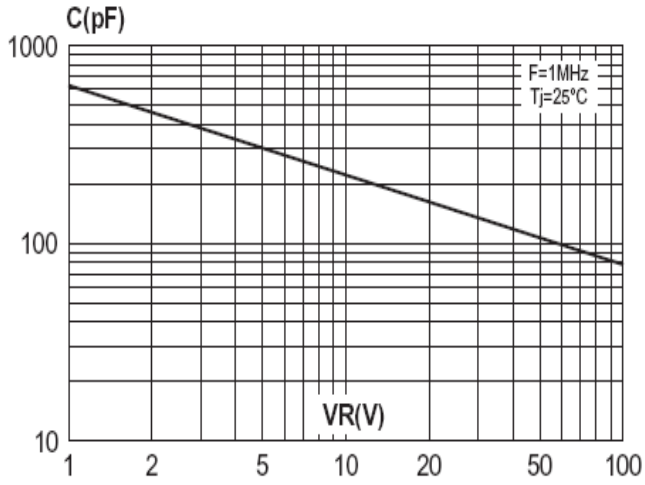
The forward voltage and forward current curve



The reverse leak current and the reverse voltage (single-device) curve



The crunode capacitance curve



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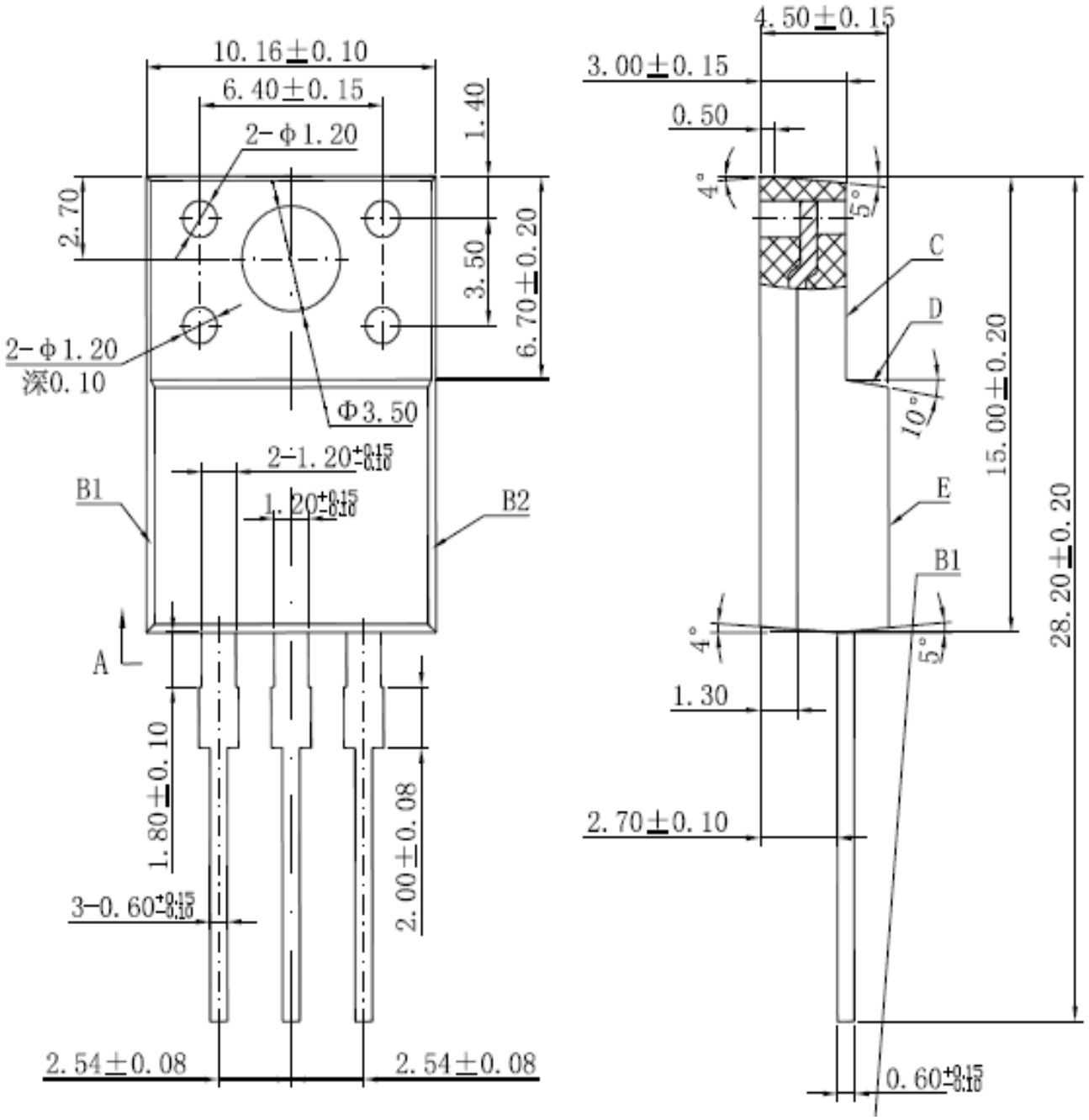
10.16±0.10
6.40±0.15
2-φ1.20
1.40
2.70
3.50
6.70±0.20
2-φ1.20
深0.10
Φ3.50
2-1.20
1.20
B1
B2
A
1.80±0.10
3-0.60
2.00±0.08
2.54±0.08
2.54±0.08
4.50±0.15
3.00±0.15
0.50
4°
5°
C
D
10°
15.00±0.20
28.20±0.20
E
B1
4°
5°
1.30
2.70±0.10
0.60