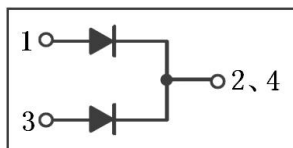


TO-263 Plastic package Schottky diode .

Low forward voltage drop,low power losses,High efficiency operation.

For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications.



PIN1 Anode PIN 2 4 Cathode PIN 3 Anode

See Marking Instructions.

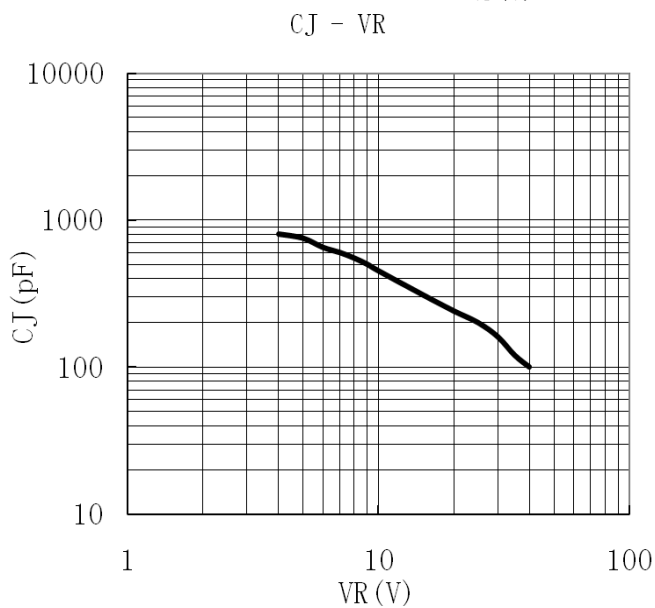
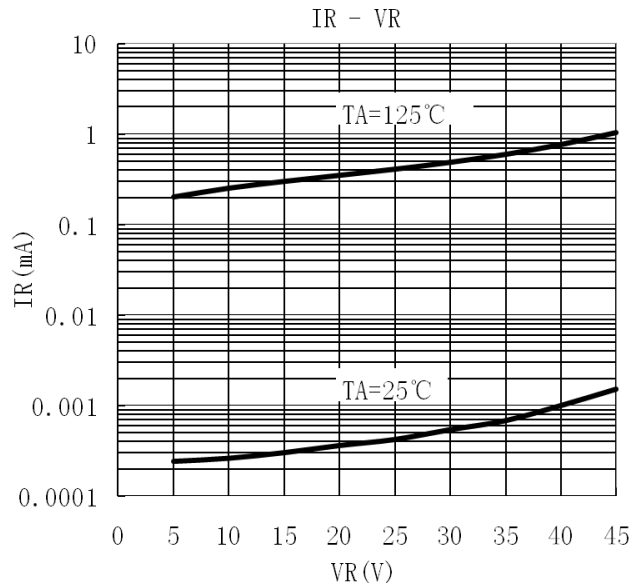
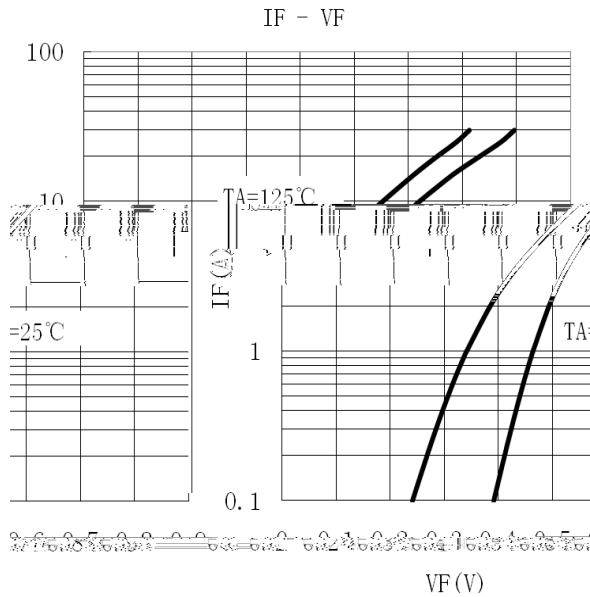
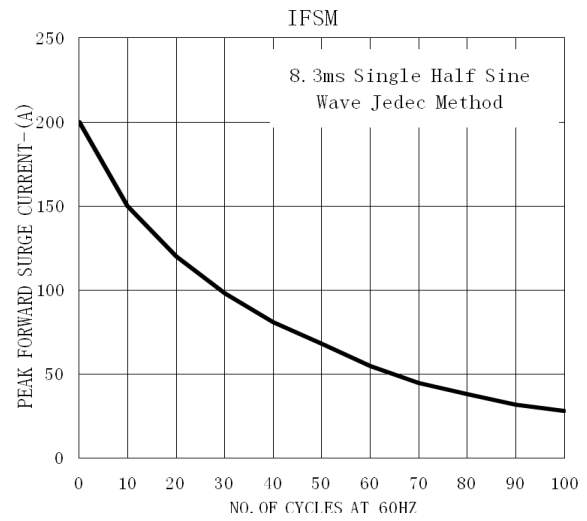
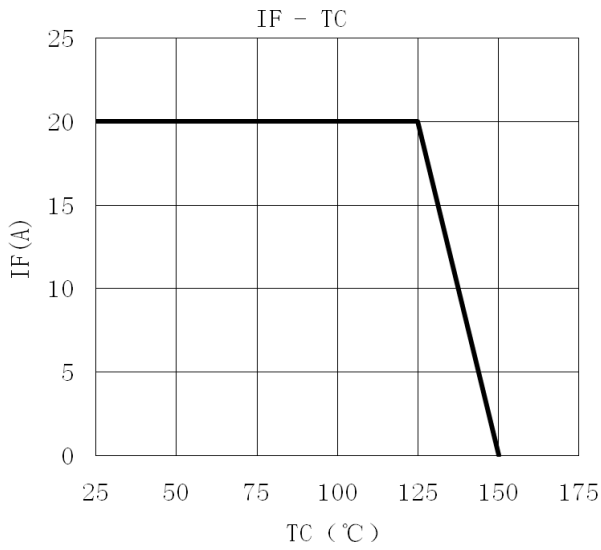
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_{DC}	45	V
RMS Reverse Voltage	V_{RMS}	31.5	V
Average forward rectified Current	$I_{F(AV)}$	2×10	A
Non Repetitive Peak Surge Current	I_{FSM}	200	A
Thermal Resistance Junction to Case	R_{Jc}	2.2	/W
Junction and Storage Temperature Range	$T_j T_{stg}$	-55~+150	

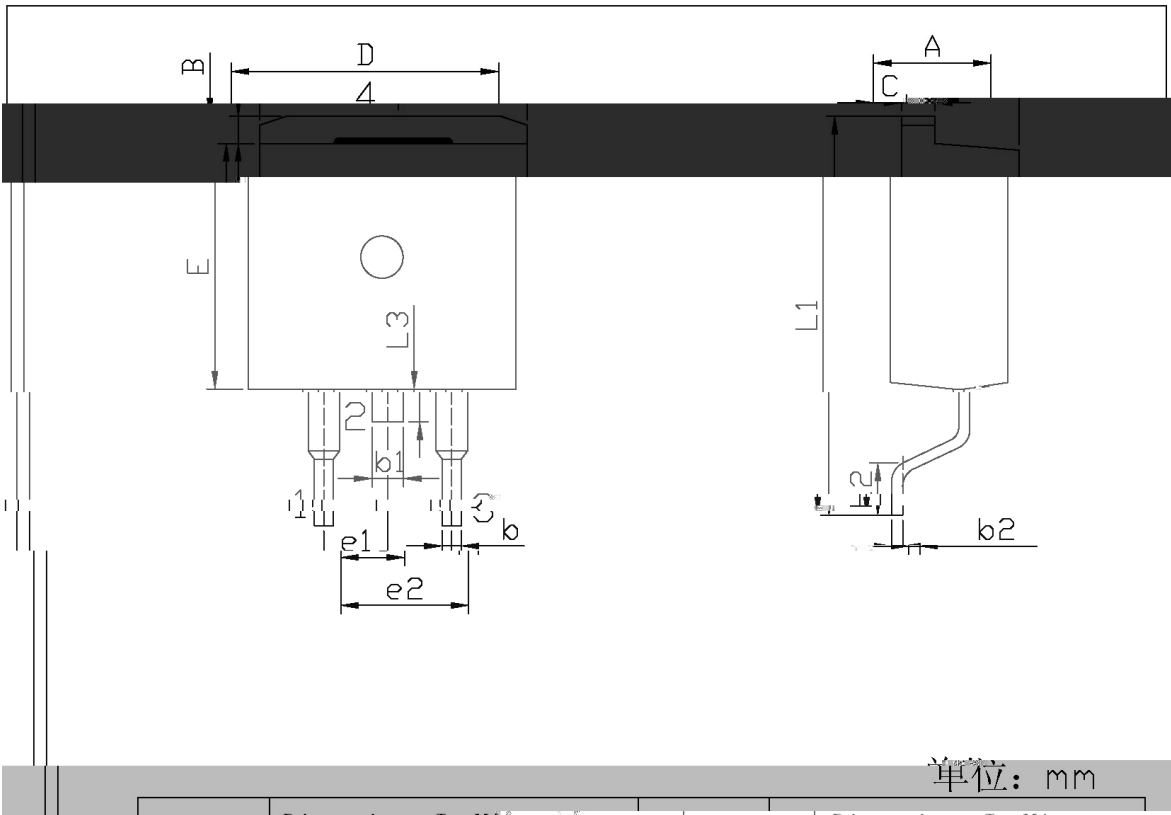
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)R}$	$I_R = 1mA$ $T_a = 25$	45			V
Peak Forward Voltage	V_{FM}	$I_F = 5.0A$ $T_a = 25$			0.60	V
		$I_F = 5.0A$ $T_a = 125$			0.50	V
		$I_F = 10A$ $T_a = 25$			0.70	V
		$I_F = 10A$ $T_a = 125$			0.60	V
Instantaneous Reverse Current	I_R Note 1	$V_R = 45V$ $T_a = 25$			100	μA
		$V_R = 45V$ $T_a = 125$			15	mA

/Notes

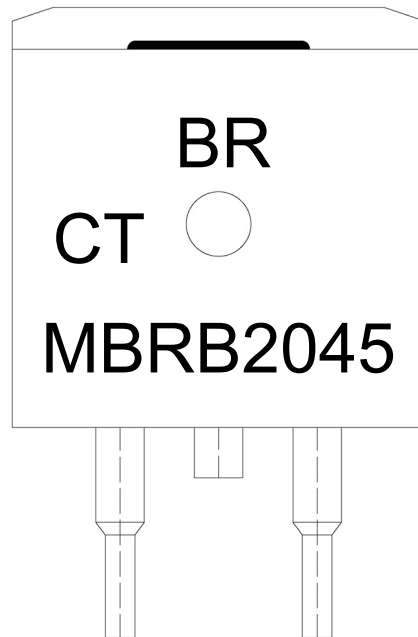
/Short duration pulse test used to minimize self-heating effect.

/ Unless otherwise noted, values for the parameters of a single chip.





尺寸	单位	规格	公差	材料	备注
b1	mm	1.15	±0.05	铜	
b2	mm	0.40	±0.02	铜	
C	mm	1.20	±0.05	铜	
D	mm	9.80	±0.10	铜	



BR

MBRB2045

CT

Note:

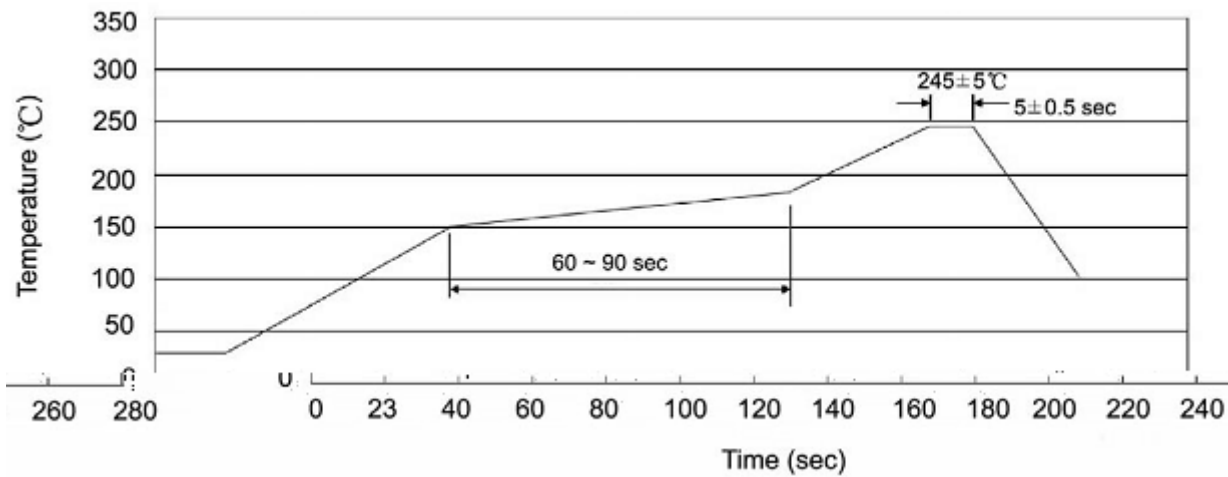
BR: Company Code

MBRB2045: Product Type.

CT: Internal Structure

****: Lot No. Code, code change with Lot No.

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 2

245 5

5 0.5sec;

2.Peak Temp.:245 5 , Duration:5 0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

260 5

10 1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
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