

Rev.A Oct.-2022

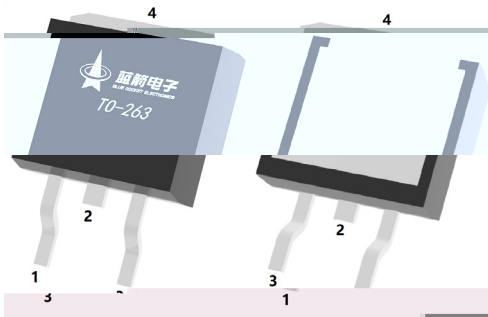
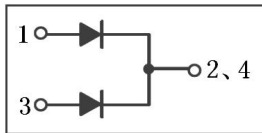
TO-263

Fast Recovery Epi Diodes in a TO-263 Plastic Package.

High frequency operation, High surge forward current capability, HF Product.

PFC

For high frequency, high voltage, high current rectifier diode, freewheeling diode, PFC circuit.



PIN1 Anode

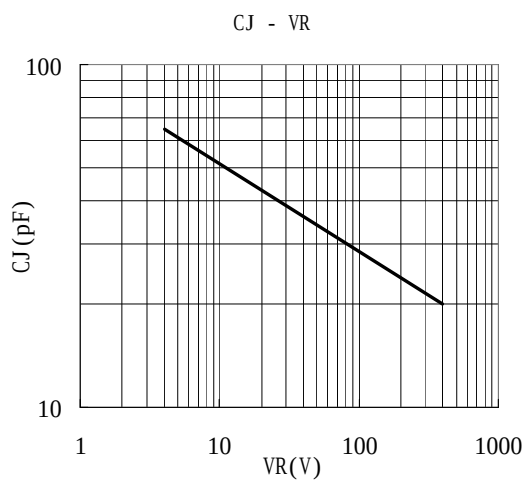
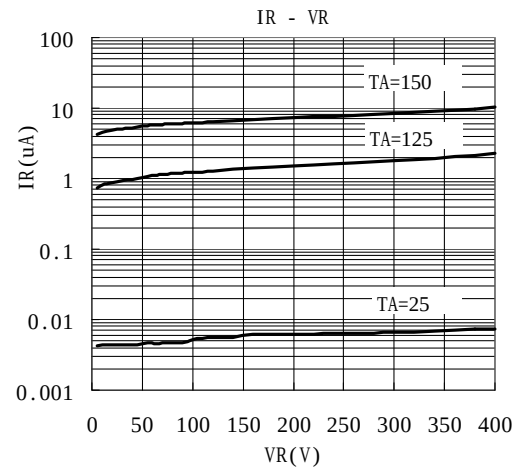
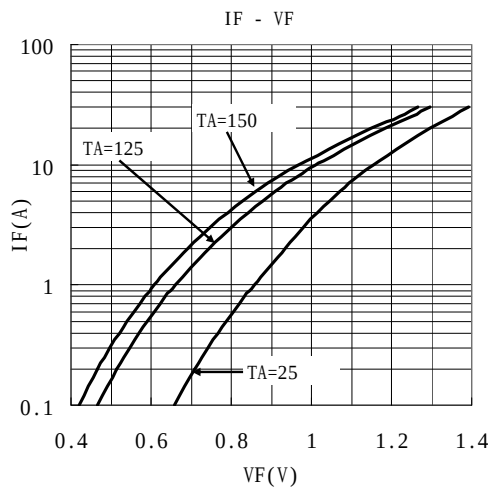
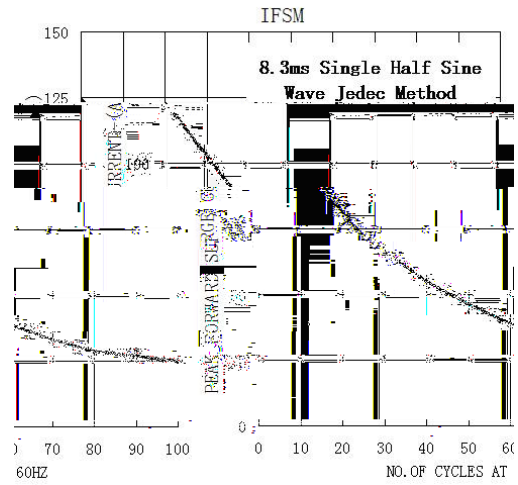
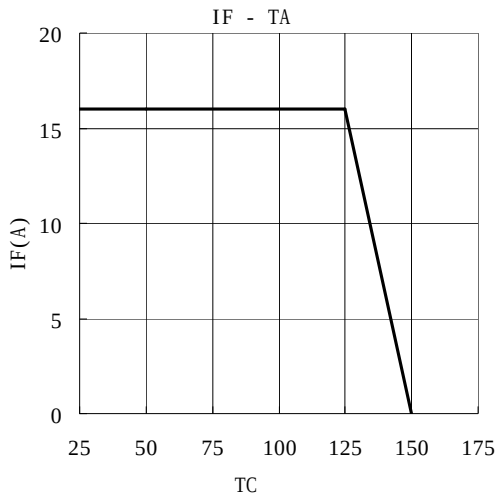
PIN 2 4 Cathode

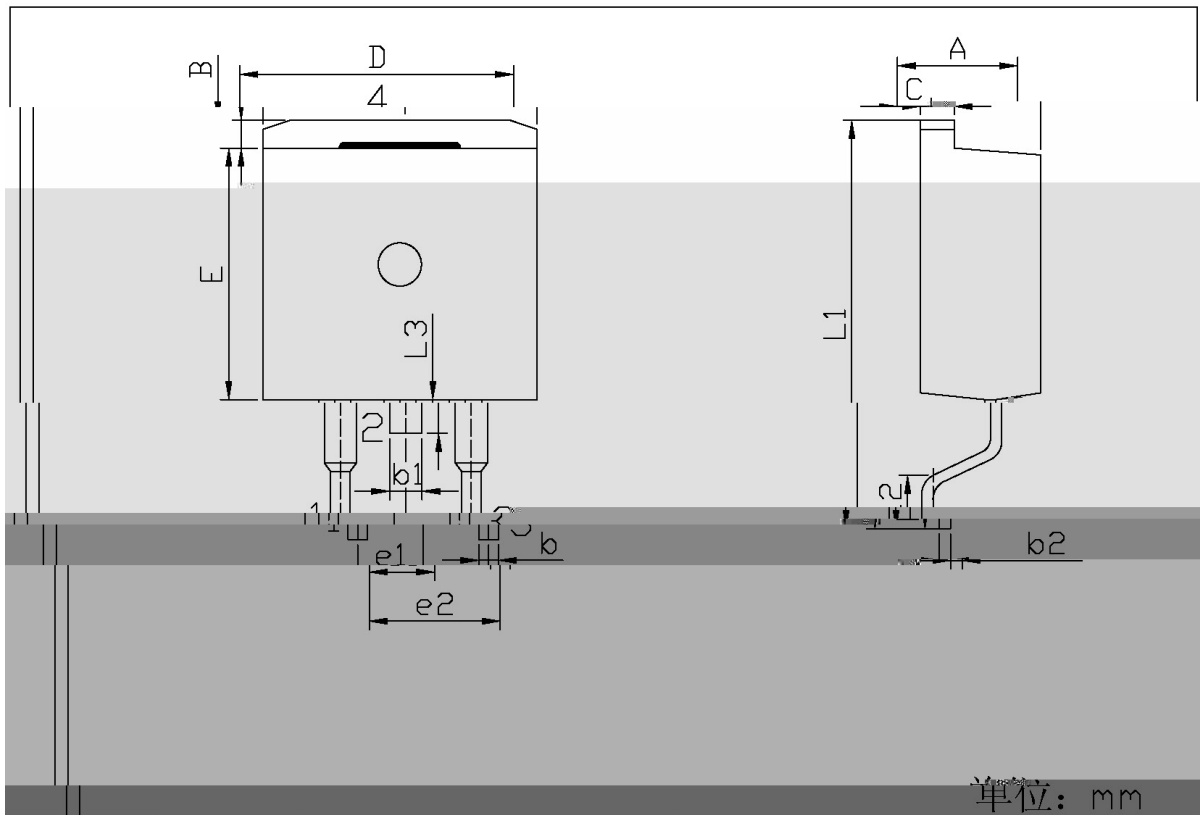
PIN 3 Anode

See Marking Instructions.

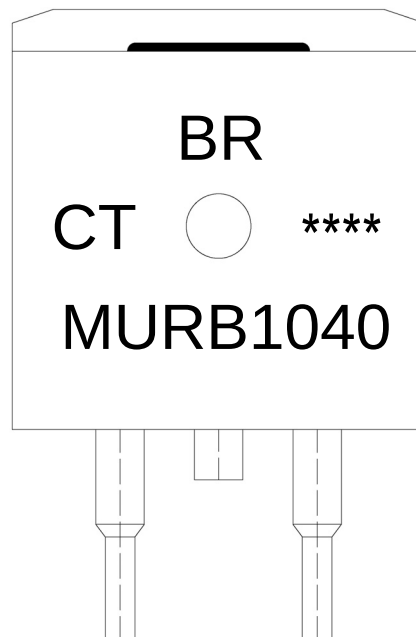
Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS voltage	V_{RMS}	280	V
Maximum DC blocking Voltage	V_{DC}	400	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2x5	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	125	A
Maximum Thermal Resistance Junction To Case	$R_{\theta Jc}$	2.8	/W
Operation Junction Temperature and Storage Temperature	T_j, T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Rating	Unit
Forward Voltage	V_F	$I_F=5A \quad T_c=25$	1.3	V
Instantaneous Reverse Current	I_R	$V_R=400V \quad T_a=25$	1	μA
		$V_R=400V \quad T_a=125$	100	μA
Reverse Recovery Time	t_{rr}	$I_F=0.5A \quad I_R=1.0A \quad I_{REC}=0.25A$	35	ns





Series	Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
		Min	Max		Min	Max
A	A	4.30	4.70	E	9.00	9.40
B	B	6.35	6.75	F	12.70	13.10



BR

MURB1040

CT:

Note:

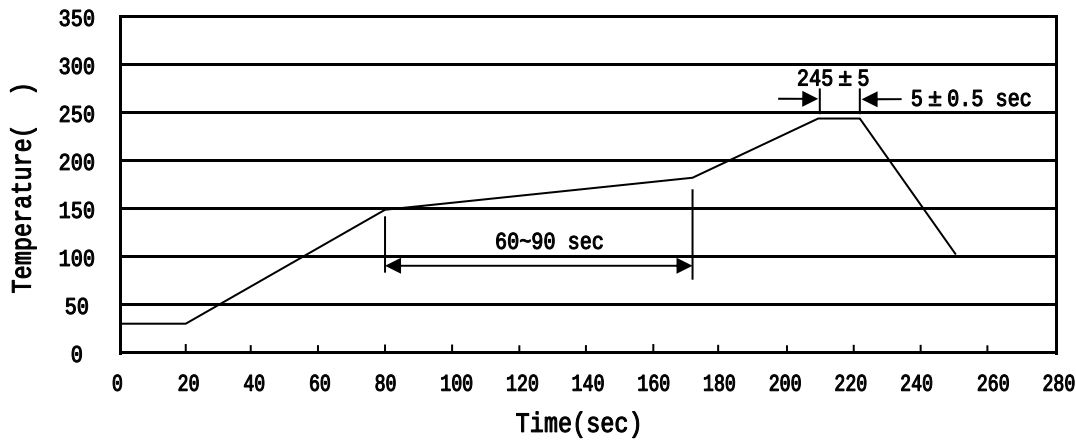
BR: Company Code

MURB1040: Product Type

CT: Internal Structure

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

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , 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)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
TO-263	800	1	800	6	4,800	13 ×24	360×360×50	380×335×366

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-263	50	20	1,000	5	5,000	532×33×7.0	555×164×50	575×290×180