

/ Descriptions

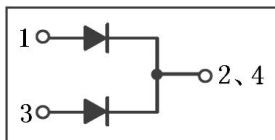
Ultrafast Recovery Diode in a TO-263 Plastic Package.

/ Features

Silicon epitaxial process to produce ultrafast recovery diode with low reverse leakage current and high reliability.

/ Applications

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

/ Equivalent Circuit**/ Pinning**

PIN1 Anode

PIN 2,4 Cathode

PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions

MUR2040BCT

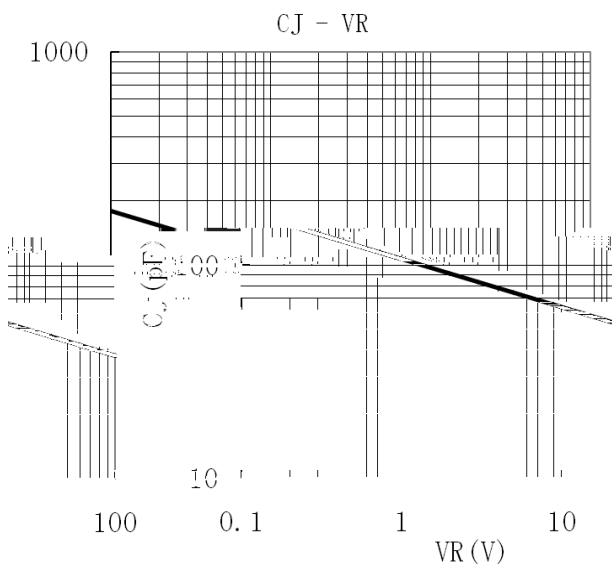
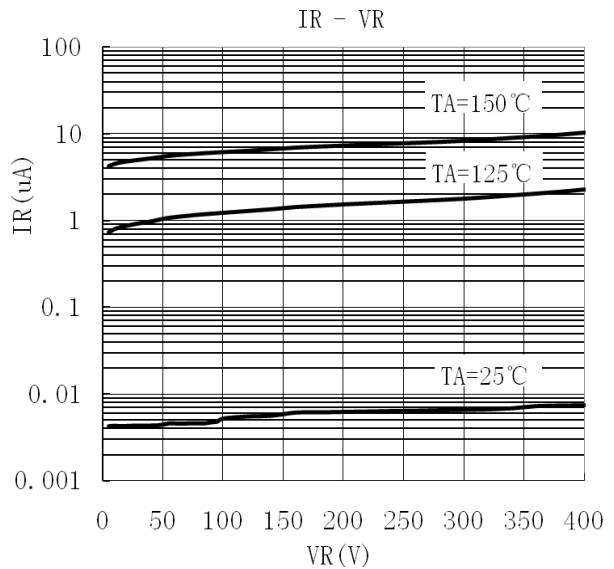
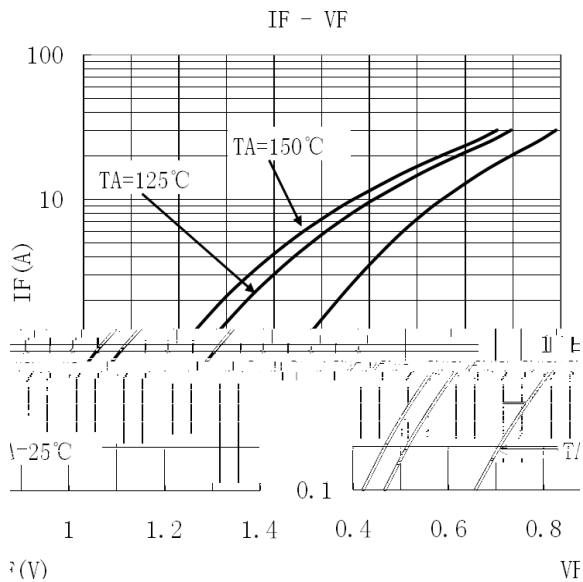
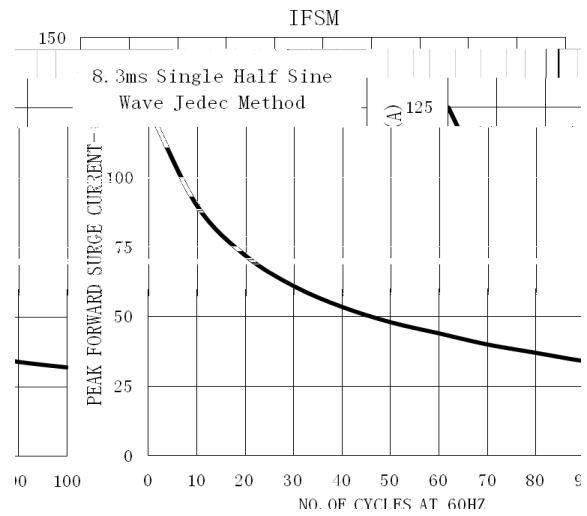
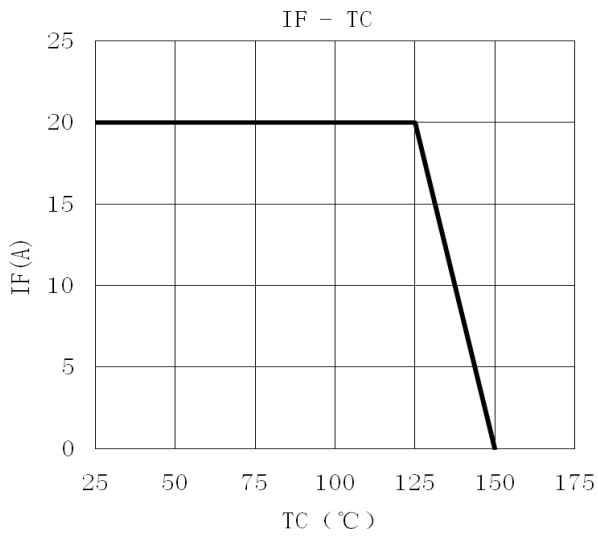
Rev.F May.-2016

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	400	V
RMS Voltage	V_{RMS}	280	V
DC Blocking Voltage	V_{DC}	400	V
Average Forward Current	I_F	2×10	A
Non Repetitive Peak Surge Current	I_{FSM}	125	A
Thermal Resistance Junction to Case	$R_{\theta JC}$	2.8	$^{\circ}C/W$
Operating and Storage Temperature Range	T_j, T_{stg}	-55~150	$^{\circ}C$

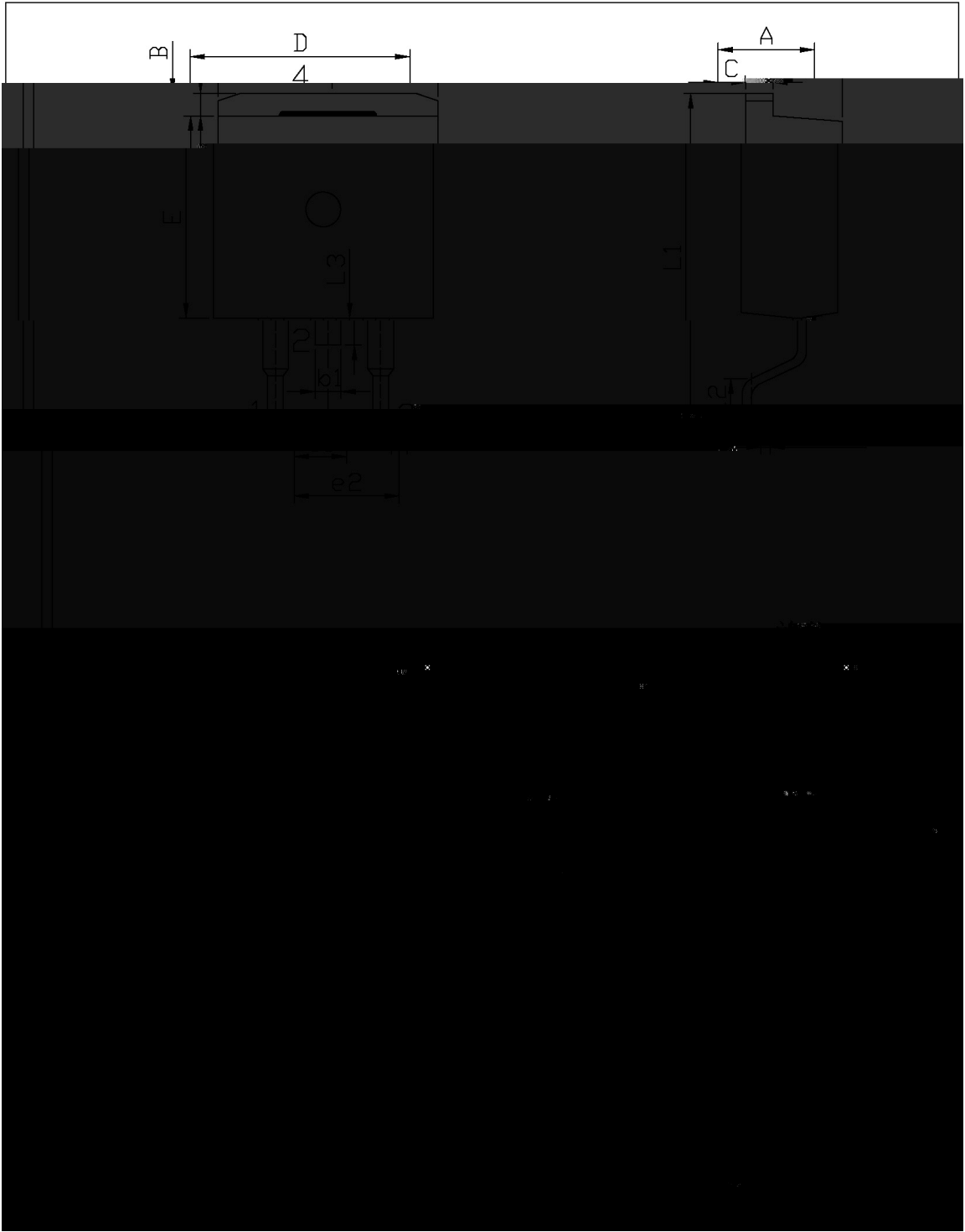
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=2A \quad T_c=25$		0.93	1.1	V
		$I_F=2A \quad T_c=150$		0.69	0.8	V
		$I_F=10A \quad T_c=25^{\circ}C$		1.15	1.3	V
		$I_F=10A \quad T_c=150^{\circ}C$		0.96	1.1	V

Instantaneous Reverse Current I_R

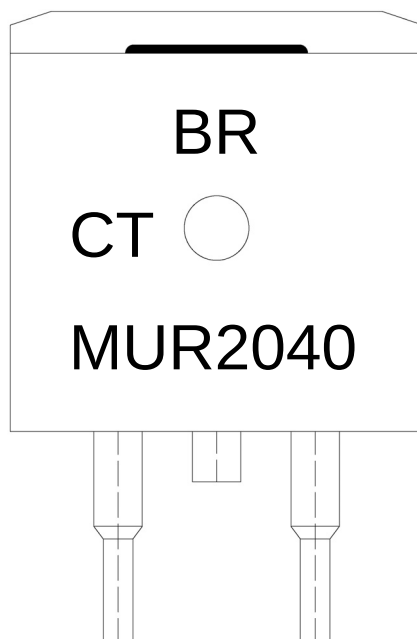
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

Note:

BR:

Company Code

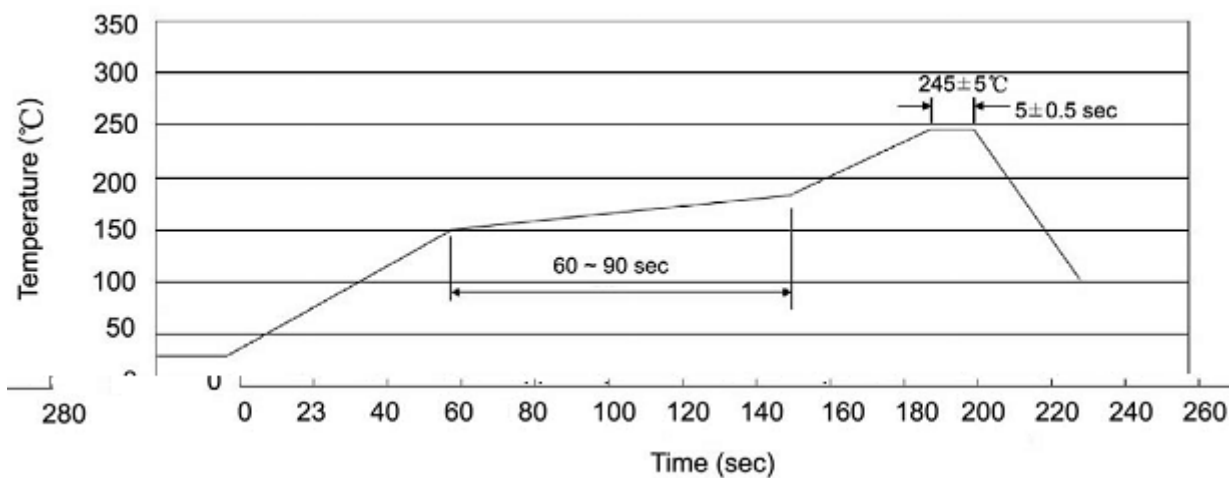
Product Type.

:

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. |

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱
						"		

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱

/ Notices