/ Descriptions

Ultrafast Recovery Diode in a TO-263 Plastic Package.

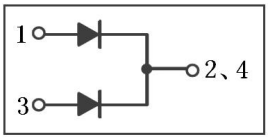
/ Features

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, PFC circuit.

/ Equivalent Circuit



/ Pinning

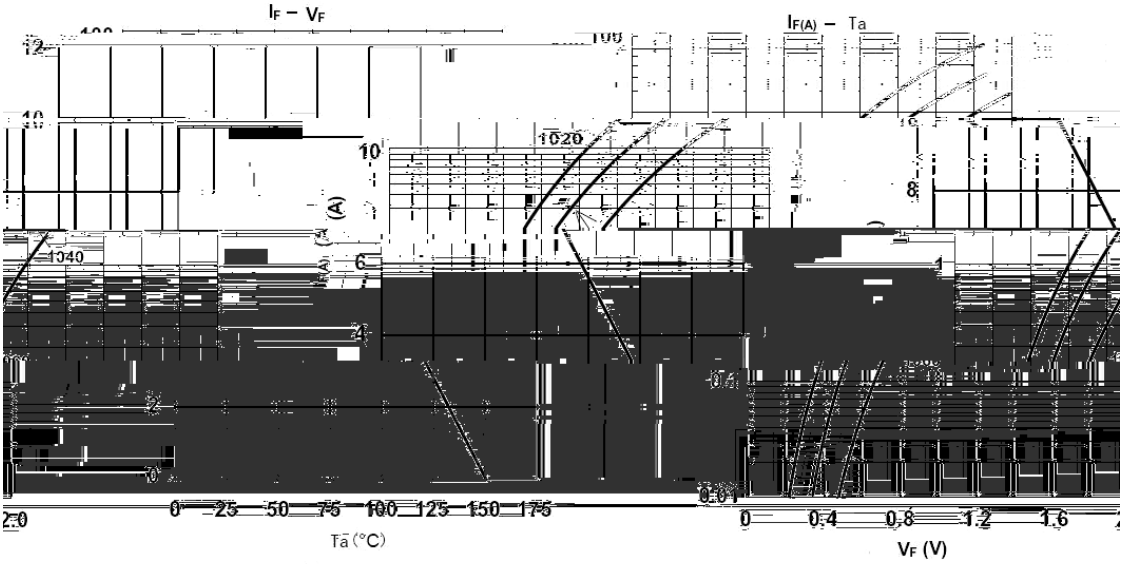
PIN1 Anode PIN 2 4 Cathode PIN 3 Anode

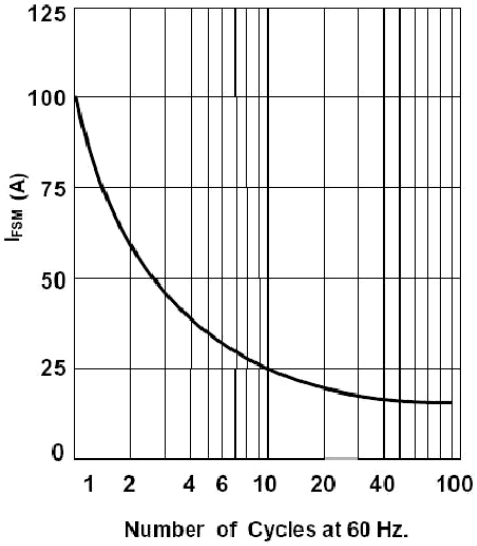
/ h_{FE} Classifications & Marking

。See Marking Instructions.

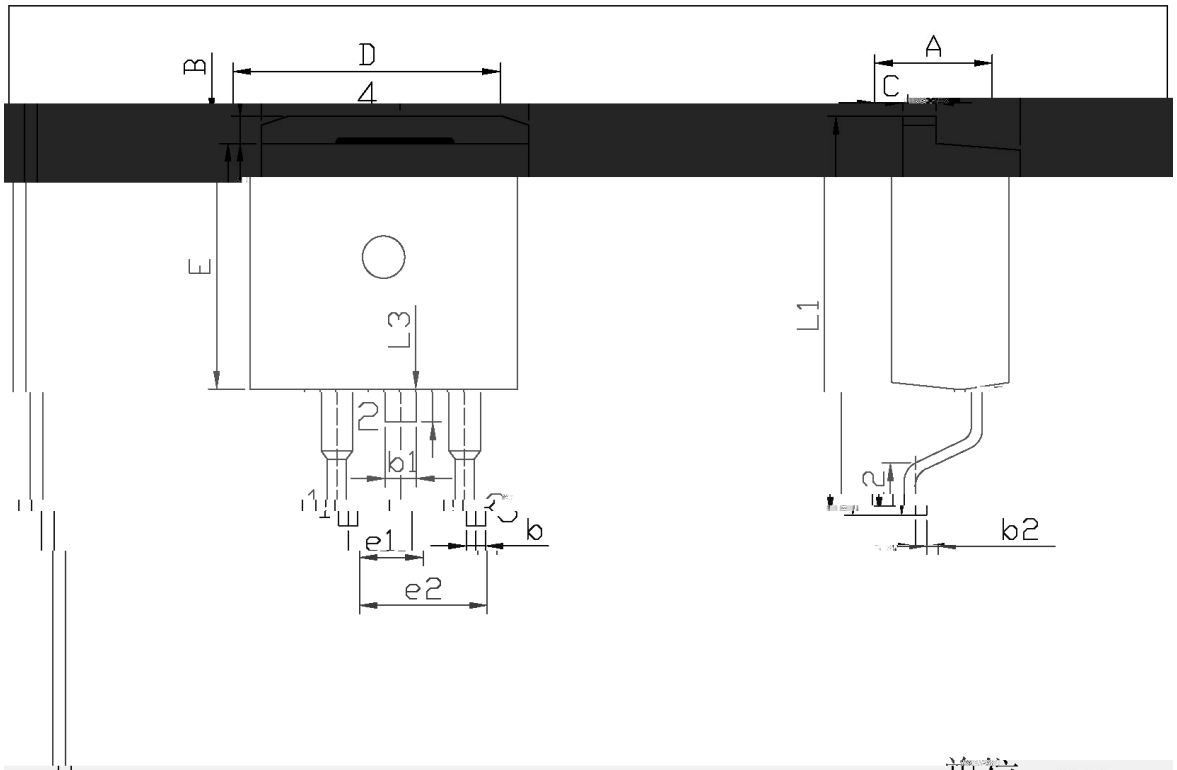
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	400	V
RMS Voltage	V_{RMS}	280	V
DC Blocking Voltage	V_{DC}	400	V
Peak Repetitive Forward Current	I_F	10	A
Non Repetitive Peak Surge Current	I_{FSM}	100	A
Maximum Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.8	/W
Storage Temperature Range	T_{stg}	-55～150	

/ Electrical Characteristic Curve





/ Package Dimensions



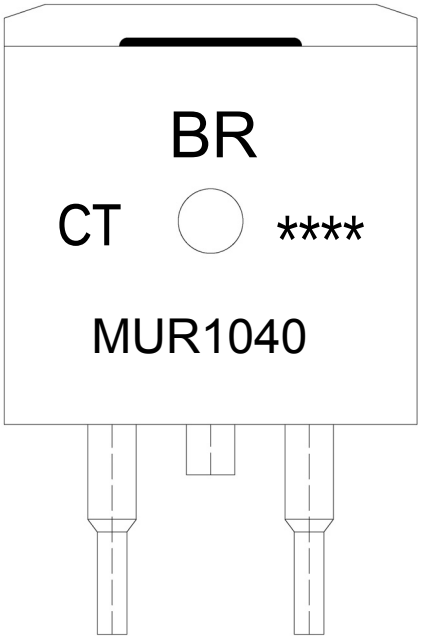
单位：mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	4.30	4.70	E	9.00	9.40
B	1.00	1.40	e1	2.34	[illegible]

[redacted]

TO-263

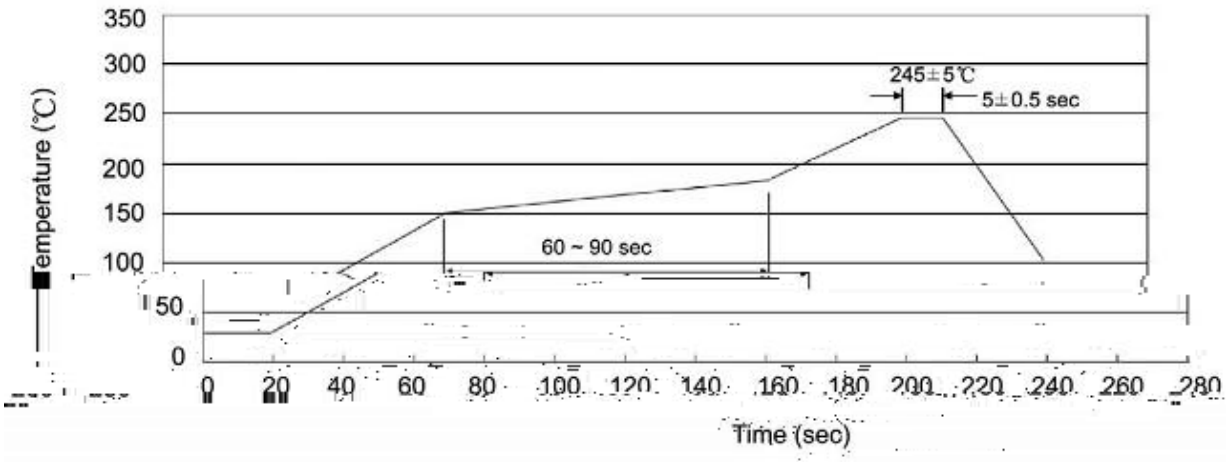
/ Marking Instructions



Note:

BR:	Company Code
MUR1040:	Product Type
CT:	Internal Structure
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



1	150 180	60 90sec;		
2	255 5	5 0.5sec;		
3	2 10 /sec.			

Note:
1.Preheating:150~180 , Time:60~90sec.
2.Peak Temp.:255 5 , Duration:5 0.5sec.
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)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-263	800	1	800	5	4,000	13″ ×24	360×360×50	385×257×392

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-263	50	20	1,000	5	5,000	532×33×7.0	555×164×50	575×290×180

/ Notices