

/ Descriptions

TO-220AC
Ultrafast Recovery Diode in a TO-220AC Plastic Package.

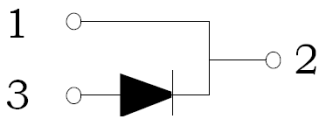
/ Features

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

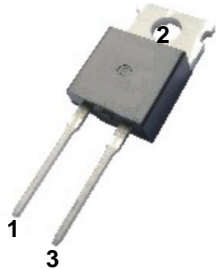
/ Applications

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

/ Equivalent Circuit



/ Pinning



PIN1 2 Cathode

PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
RMS Voltage	V_{RMS}	420	V
DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Current	I_F	1× 30	A
Peak forward surge current	I_{FSM}	300	A
Typical Thermal Resistance Junction to Case	R_{JC}	2.8	/W
Junction Temperature Range	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

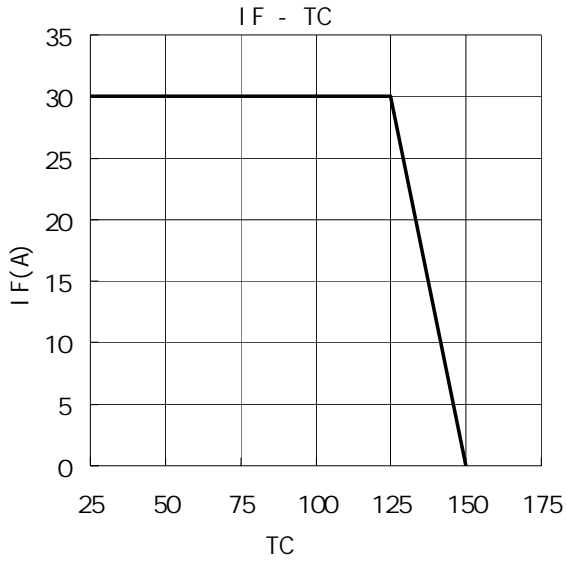
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=5.0A$ $T_C=25$			1.35	V
		$I_F=5.0A$ $T_C=150$			1.15	
		$I_F=30A$ $T_C=25$			1.65	
		$I_F=30A$ $T_C=150$			1.25	
Instantaneous Reverse Current <small>Note1</small>	I_R	$V_R=600V$ $T_a=25$			0.25	mA
		$V_R=420V$ $T_a=150$			1	
		$V_R=600V$ $T_a=150$			2	
Reverse Recovery Time	t_{rr}	$I_F=0.5A$ $I_{RR}=0.25A$ $I_R=1.0A$			50	ns

/Notes

1. /Short duration pulse test used to minimize self-heating effect.
2. / Unless otherwise noted, values for the parameters of a single chip

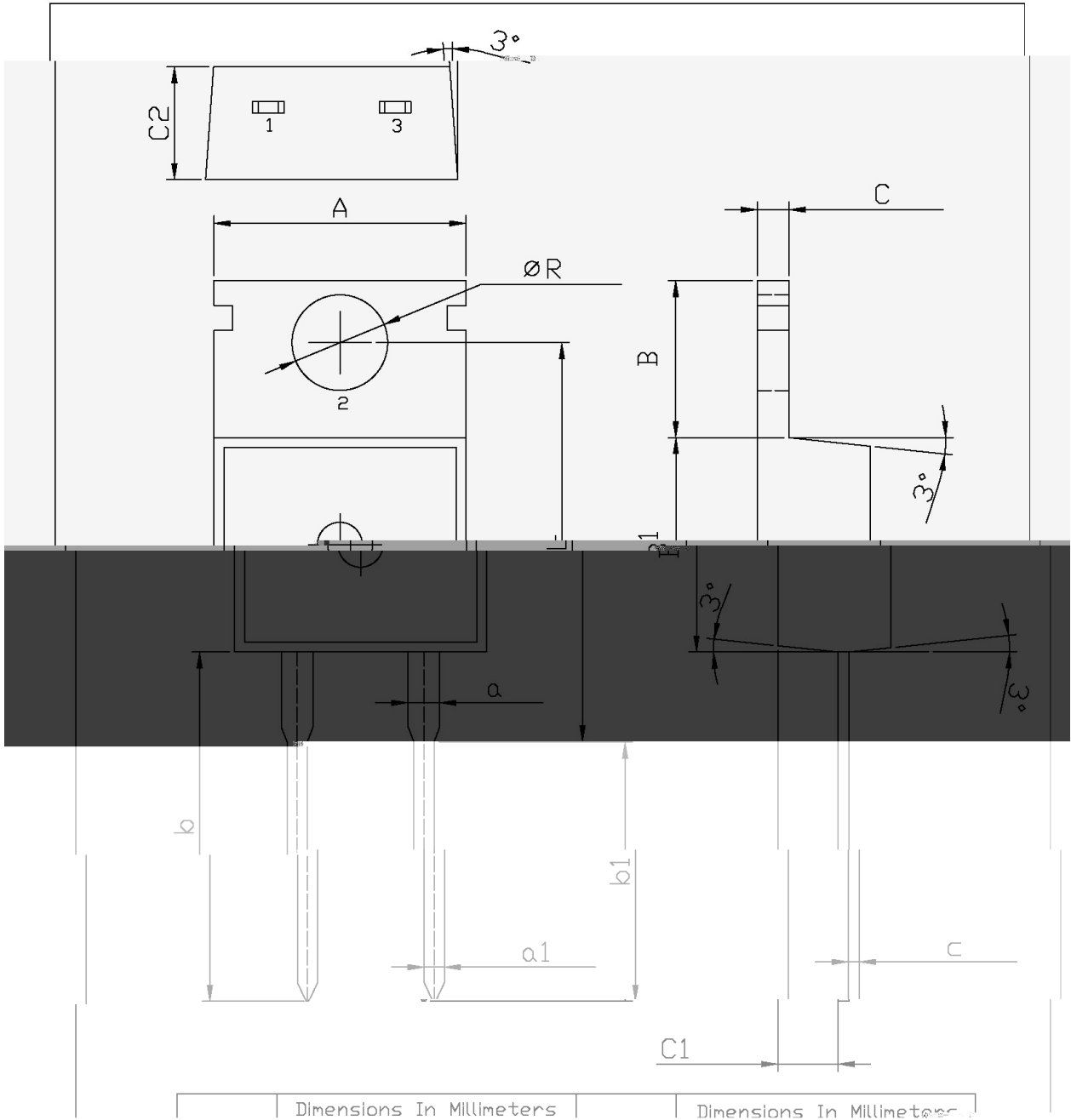
/ Electrical Characteristic Curve



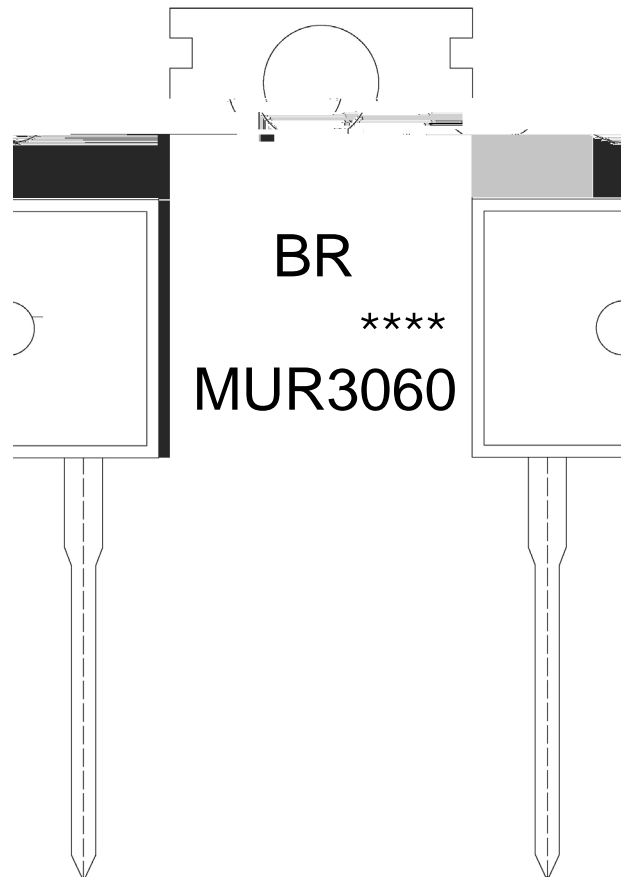
/ Package Dimensions

TO-220AC

Unit:mm



/ Marking Instructions



BR

MUR3060

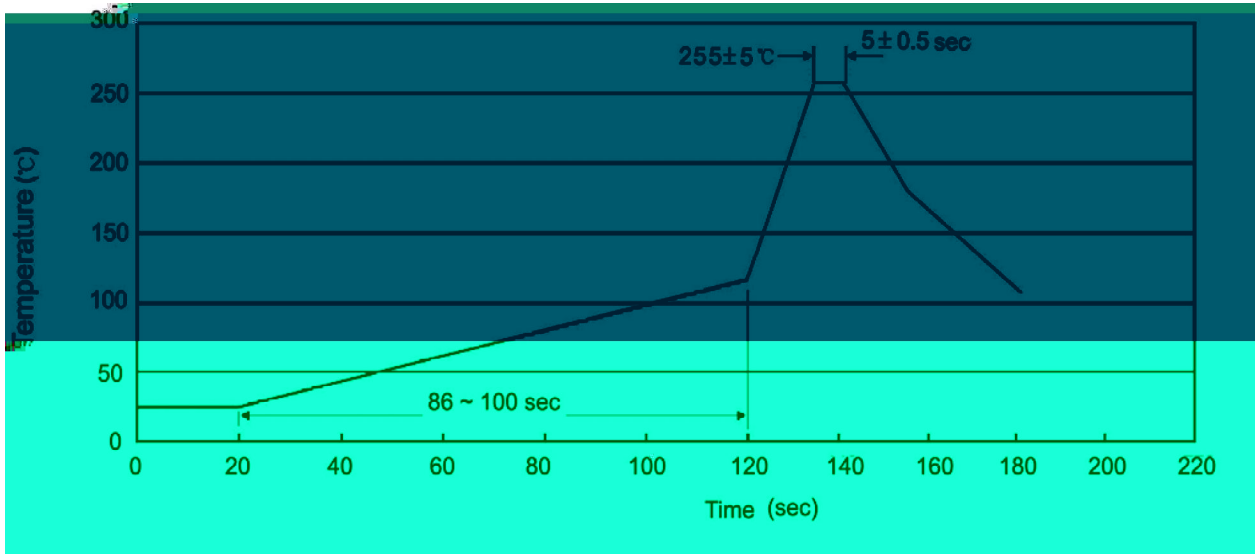
Note:

BR: Company Code

MUR3060 Product Type.

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

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-------|--------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255±5 | | 5±0.5 | sec; | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

270±5 10±1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Units 包装数量 Innn965-0.rp5-0.sp@Ou5-0.tp4n	Dimension 包装尺寸 (unit: mm ³)
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