

/ Descriptions

TO-220AC

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

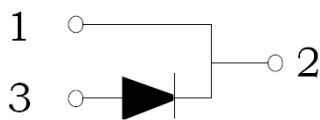
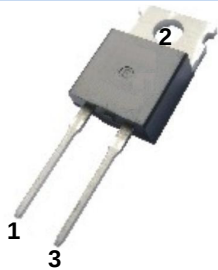
/ Features

Ultrafast Recovery Time, Soft Recovery Characteristics, Low Recovery Loss, Low Forward Voltage, High Surge Current Capability, Low Leakage Current.

/ Applications

UPS

Freewheeling, Snubber, Clamp, Inversion Welder, Plating Power Supply, Ultrasonic Cleaner and Welder, Converter, UPS.

/ Equivalent Circuit**/ Pinning**

PIN1 2 Cathode

PIN 3 Anode

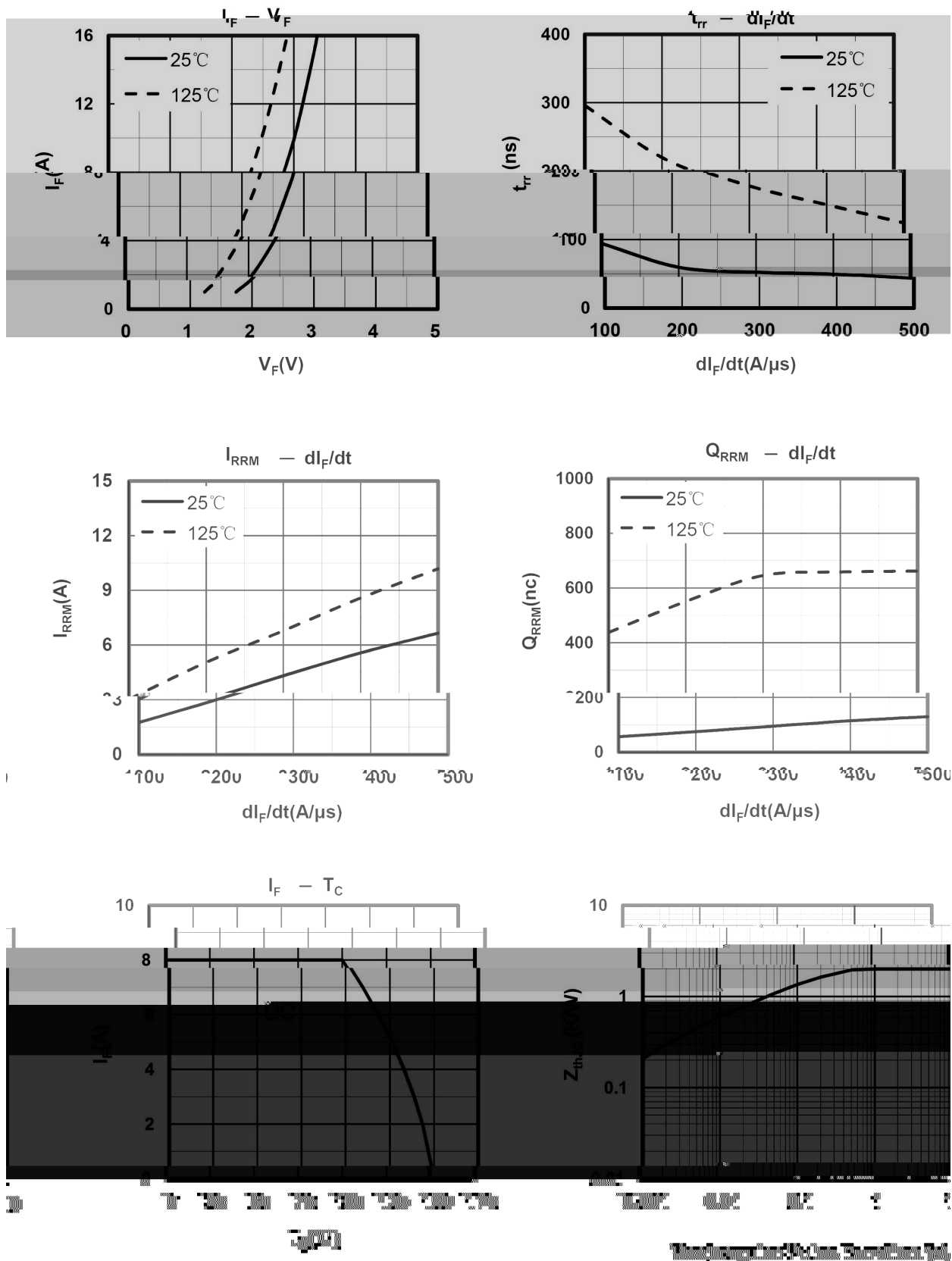
/ h_{FE} Classifications & Marking

See Marking Instructions.

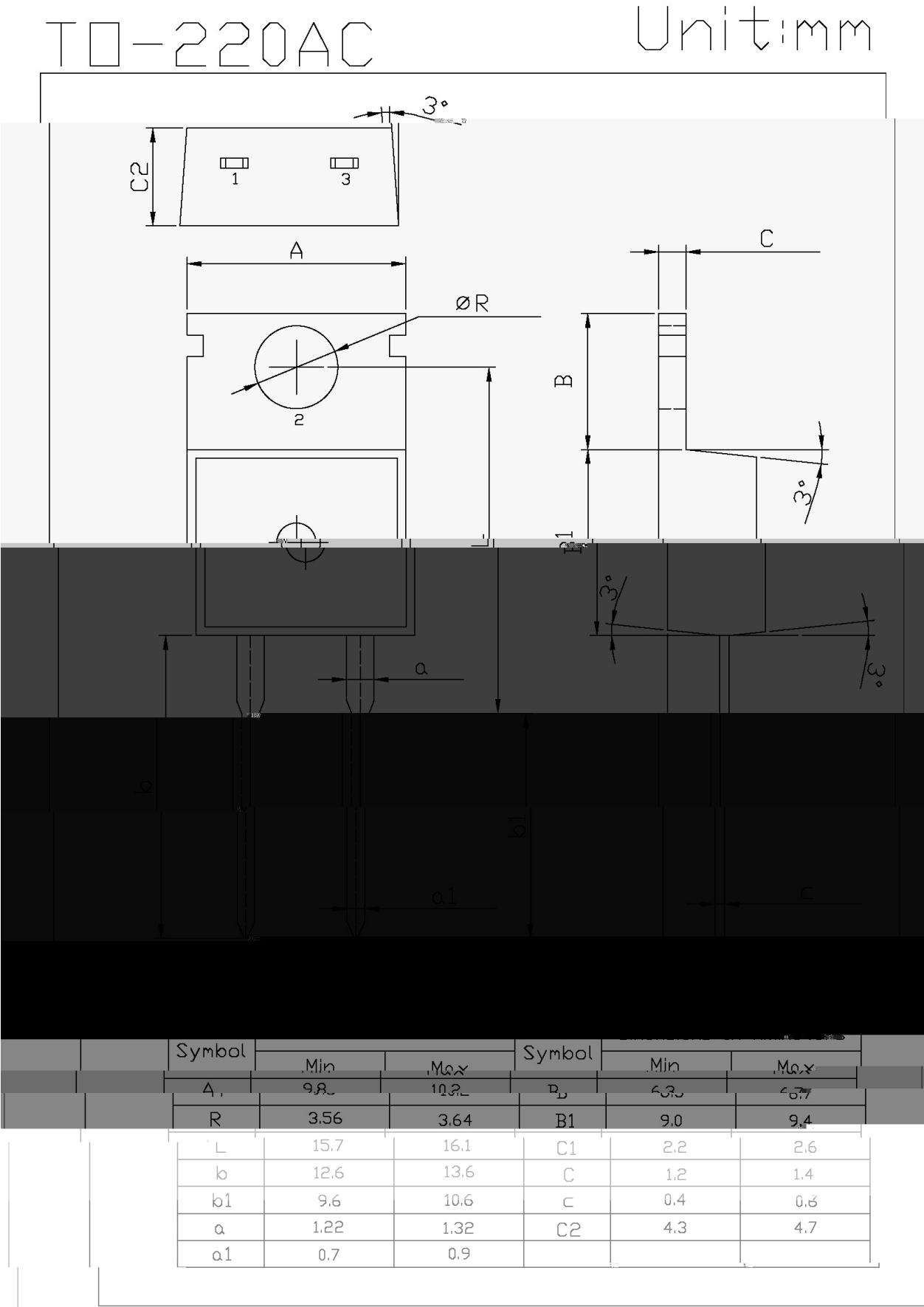
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	1200	V
Peak Reverse Voltage	V_R	1200	V
Average Rectified Forward Current	$I_{F(AV)} (T_c=110^\circ\text{C})$	8	A
Average Rectified Forward Current(RMS)	$I_{F(RMS)} (T_c=110^\circ\text{C})$	12	A
Non Repetitive Peak Surge Current($T_J=45^\circ\text{C}$, $t=10\text{ms}$, 50Hz, Sine)	I_{FSM}	60	A
Power Dissipation	P_D	62	W
Thermal Resistance Junction to Case	$R_{\theta JC}$	2.0	$^\circ\text{C/W}$
Junction Temperature	T_J	-55 +150	
Storage Temperature Range	T_{stg}	-55 +125	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
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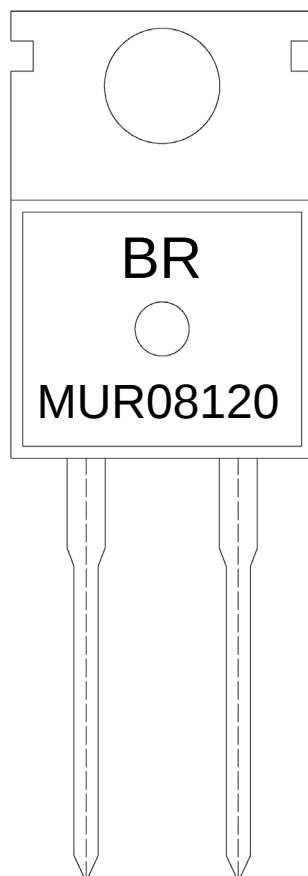
/ Electrical Characteristic Curve



I Package Dimensions



/ Marking Instructions



BR

MUR08120

Note:

BR:

Company Code

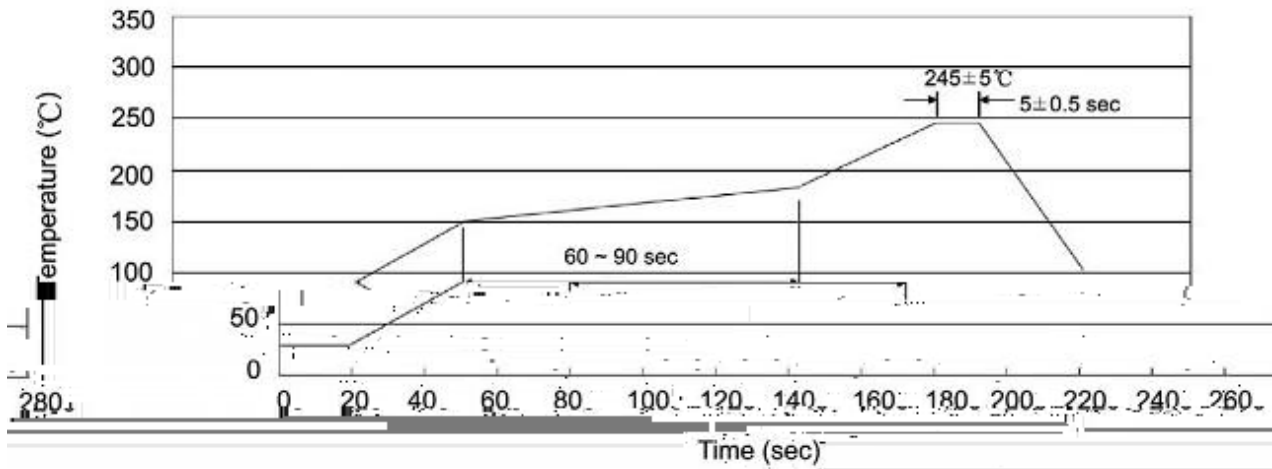
MUR08120

Product Type Code.

****:

Lot No. Code, code change with Lot No.

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



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 255±5 | | 5±0.5sec; | | 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	Units					Dimension		(unit mm ³)

/ TUBE

Package Type	Units					Dimension		(unit mm ³)

/ Notices