

WO-220DF                    A

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

|   |   |          |   |   |      |   |
|---|---|----------|---|---|------|---|
| ط | ب | WO-220DF | H | و | 600Y | M |
|---|---|----------|---|---|------|---|


**/ Absolute Maximum Ratings(Ta=25 )**

| Parameter                         | N<br>Symbol    | Rating  | Unit |
|-----------------------------------|----------------|---------|------|
| Peak Repetitive Reverse Voltage   | $V_{RRM}$      | 600     | V    |
| Working Peak Reverse Voltage      | $V_{RWM}$      | 600     | V    |
| DC Blocking Voltage               | $V_R$          | 600     | V    |
| Average Forward Current           | $I_F$          | 8       | A    |
| Non Repetitive Peak Surge Current | $I_{FRM}$      | 16      | A    |
| Peak forward surge current        | $I_{FSM}$      | 100     | A    |
| Power Dissipation                 | $P_{C(Tc=25)}$ | 75      | W    |
| Junction Temperature Range        | $T_j$          | 150     |      |
| Storage Temperature Range         | $T_{stg}$      | -55 150 |      |

**/ Electrical Characteristics(Ta=25 )**

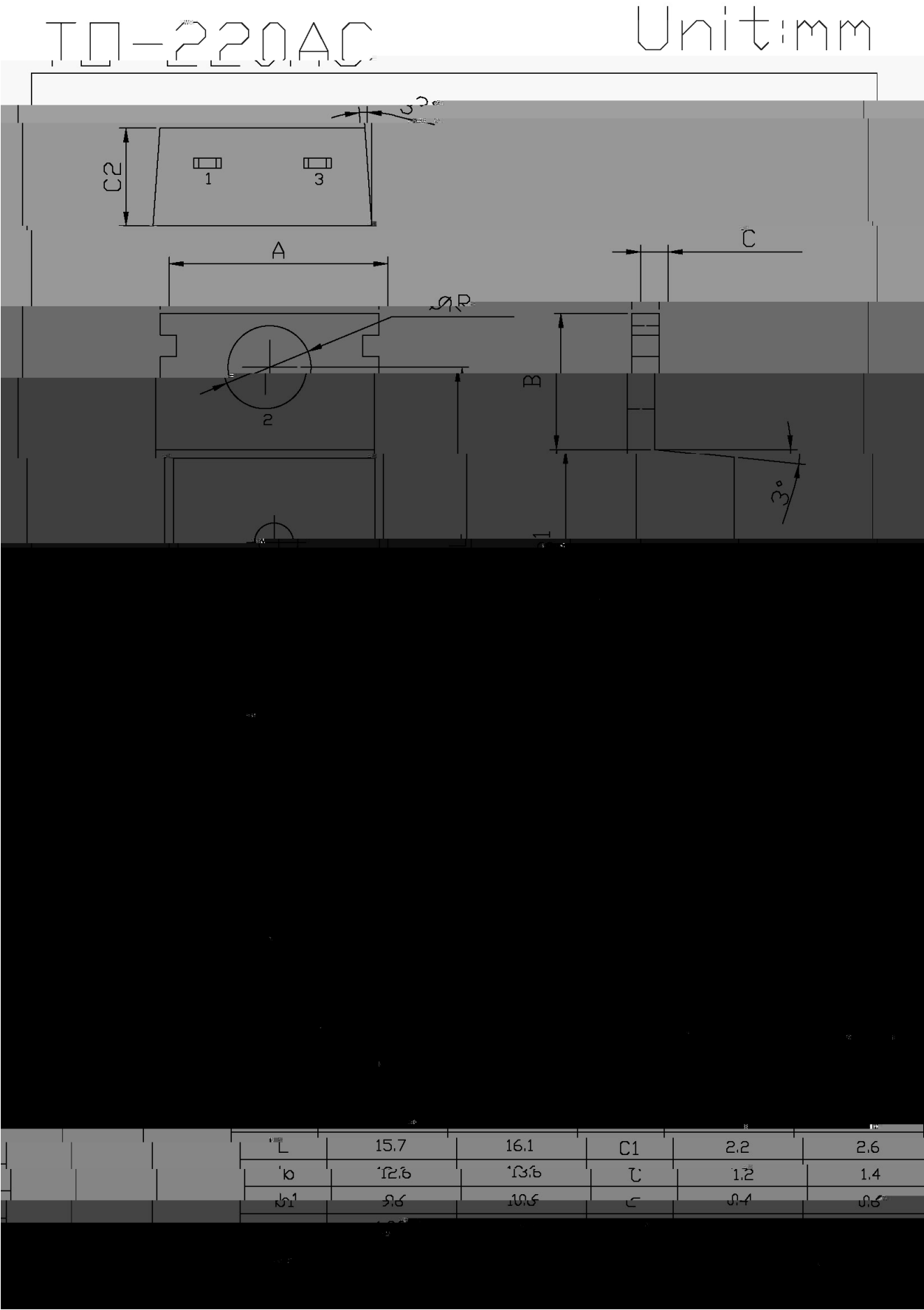
测试条件  
 Test Conditions

| Parameter                                                                                   | Symbol   | Test Conditions                   | Value | Unit    |
|---------------------------------------------------------------------------------------------|----------|-----------------------------------|-------|---------|
| Forward Voltage                                                                             | $V_F$    | $I_F=8A$                          | 1.5   | V       |
|                                                                                             |          | $I_F=8A \quad T_C=150$            | 1.2   | V       |
| Instantaneous Reverse Current                                                               | $I_R$    | $V_R=600V$                        | 100   | $\mu A$ |
|                                                                                             |          | $V_R=600V \quad T_C=150$          | 500   | $\mu A$ |
| Reverse Recovery Time                                                                       | $t_{rr}$ | $I_F=1A \quad dI_F/dt=200A/\mu S$ | 60    | ns      |
|                                                                                             |          | $I_F=8A \quad dI_F/dt=200A/\mu S$ | 70    | ns      |
| Time To Reach Peak Reverse forward current                                                  | $t_a$    | $I_F=8A \quad dI_F/dt=200A/\mu S$ | 32    | ns      |
| Time From Peak IRM Projected zero crossing of IRM based on a straight line peak through 25% | $t_b$    | $I_F=8A \quad dI_F/dt=200A/\mu S$ | 21    | ns      |
| Reverse Recovery change                                                                     | $Q_{RR}$ | $I_F=8A \quad dI_F/dt=200A/\mu S$ | 195   | nC      |
| Junction Capacitance                                                                        | $C_J$    | $V_R=10V \quad I_F=0A$            | 25    | pF      |

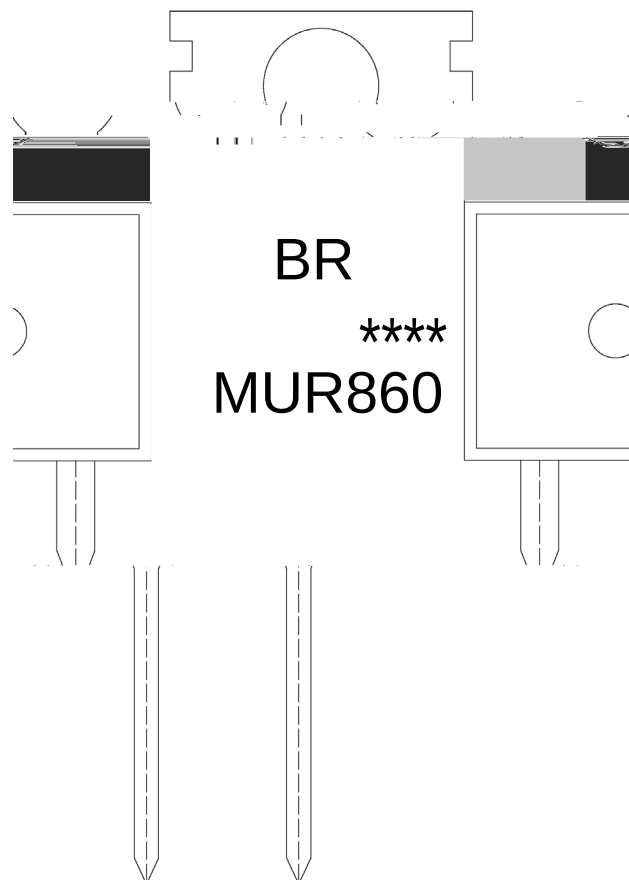
# BRMUR860AC

Rev.G Oct.-2017

/ Package Dimensions



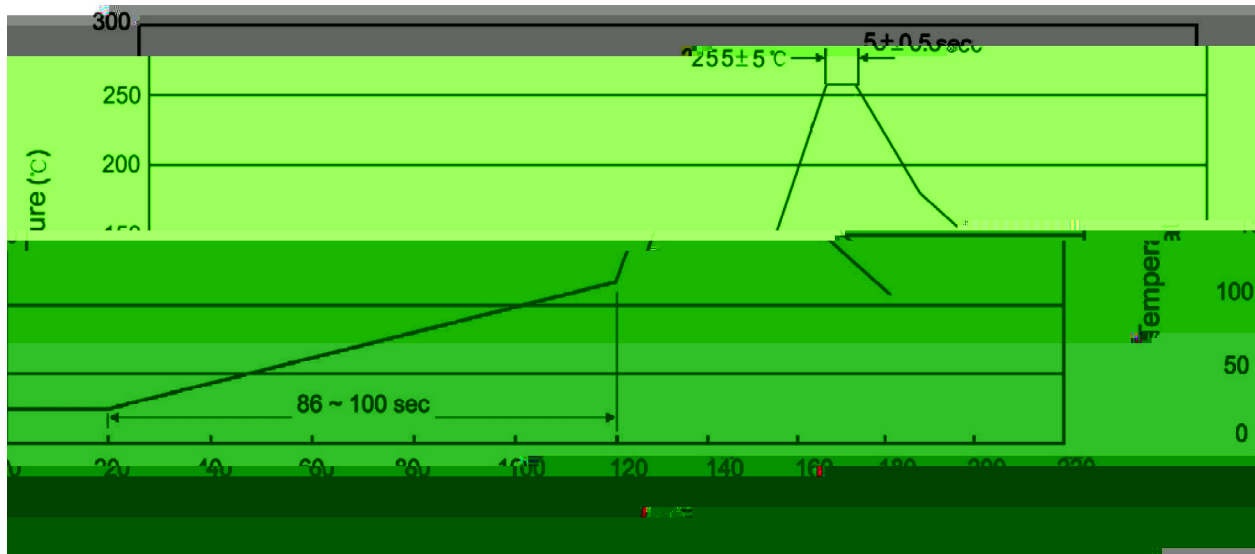
/ Marking Instructions



|        |   |
|--------|---|
| ER     | N |
| MXR860 | N |
| ****   | N |
|        | N |

Note:

|        |                                        |
|--------|----------------------------------------|
| BR:    | Company Code                           |
| MUR860 | Product Type.                          |
| ****:  | Lot No. Code, code change with Lot No. |

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


Note:

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

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2. Peak Temp.: 255±5 , Duration: 5±0.5sec.
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**/ 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 <sup>3</sup> ) |             |             |
|--------------|-----------|----------------|-----------------|-----------------------|-----------------|-----------------------------------|-------------|-------------|
|              | Units/Bag | Bags/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Bag                               | Inner Box   | Outer Box   |
| TO-220/F/AC  | 200       | 10             | 2,000           | 5                     | 10,000          | 135×190                           | 237×172×102 | 560×245×195 |

**/ TUBE**

| Package Type | Units      |                 |                 |                       |                 | Dimension (unit mm <sup>3</sup> ) |            |             |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|-----------------------------------|------------|-------------|
|              | Units/Tube | Tubes/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Tube                              | Inner Box  | Outer Box   |
| TO-220/F/AC  | 50         | 20              | 1,000           | 5                     | 5,000           | 532×31.4×5.5                      | 555×164×50 | 575×290×180 |

**/ Notices**