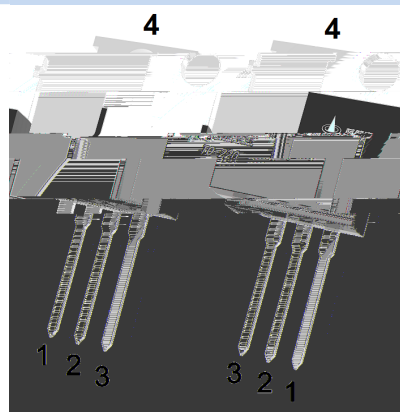
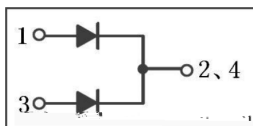


## TO-220

Fast Recovery Epi Diodes in a TO-220 Plastic Package.

High frequency operation, High surge forward current capability, HF Product.

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



PIN1 Anode PIN 2 4 Cathode PIN 3 Anode

See Marking Instructions.

| Parameter                                                                                        | Symbol         | Rating  | Unit |
|--------------------------------------------------------------------------------------------------|----------------|---------|------|
| Maximum Recurrent Peak Reverse Voltage                                                           | $V_{RRM}$      | 600     | V    |
| Maximum RMS voltage                                                                              | $V_{RMS}$      | 420     | V    |
| Maximum DC blocking Voltage                                                                      | $V_{DC}$       | 600     | V    |
| Maximum Average Forward Rectified Current @ $T_c=100^{\circ}C$                                   | $I_{F(AV)}$    | 10x2    | A    |
| Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | $I_{FSM}$      | 125     | A    |
| Maximum Thermal Resistance Junction To Case                                                      | $R_{JC}$       | 4       | /W   |
| Operation Junction Temperature and Storage Temperature                                           | $T_j, T_{stg}$ | -40~150 |      |

| Parameter                     | Symbol   | Test Conditions               | Min | Typ  | Max  | Unit |
|-------------------------------|----------|-------------------------------|-----|------|------|------|
| Forward Voltage               | $V_F$    | $I_F=10A$ $T_c=25^{\circ}C$   |     | 1.35 | 1.5  | V    |
|                               |          | $I_F=10A$ $T_c=125^{\circ}C$  |     |      | 1.25 |      |
| Instantaneous Reverse Current | $I_R$    | $V_R=600V$ $T_a=25^{\circ}C$  |     |      | 10   | A    |
|                               |          | $V_R=600V$ $T_a=125^{\circ}C$ |     |      | 500  |      |
| Reverse Recovery Time         | $t_{rr}$ | $I_F$                         |     |      |      |      |

Fig.1 TYPICAL FORWARD CURRENT DERATING CURVE

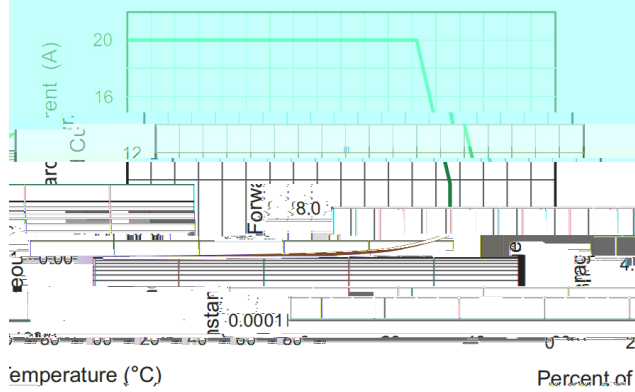


Fig.2 Typical Reverse Characteristics

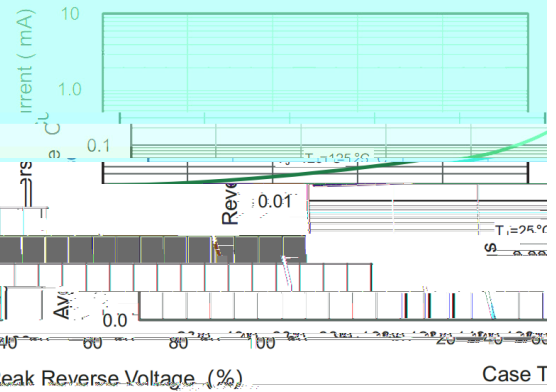


Fig.3 Typical Forward Characteristics

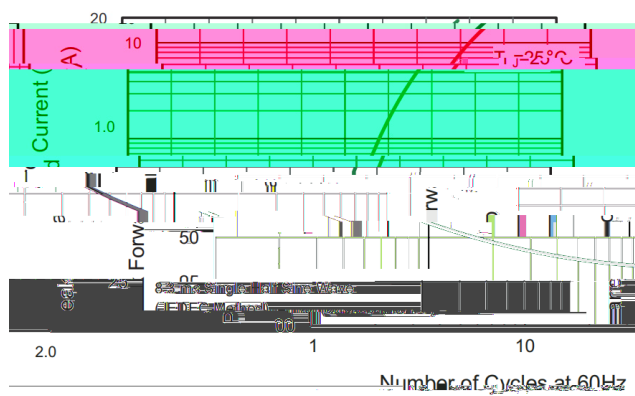
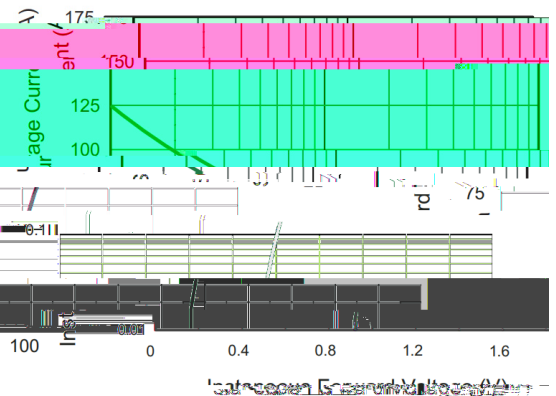
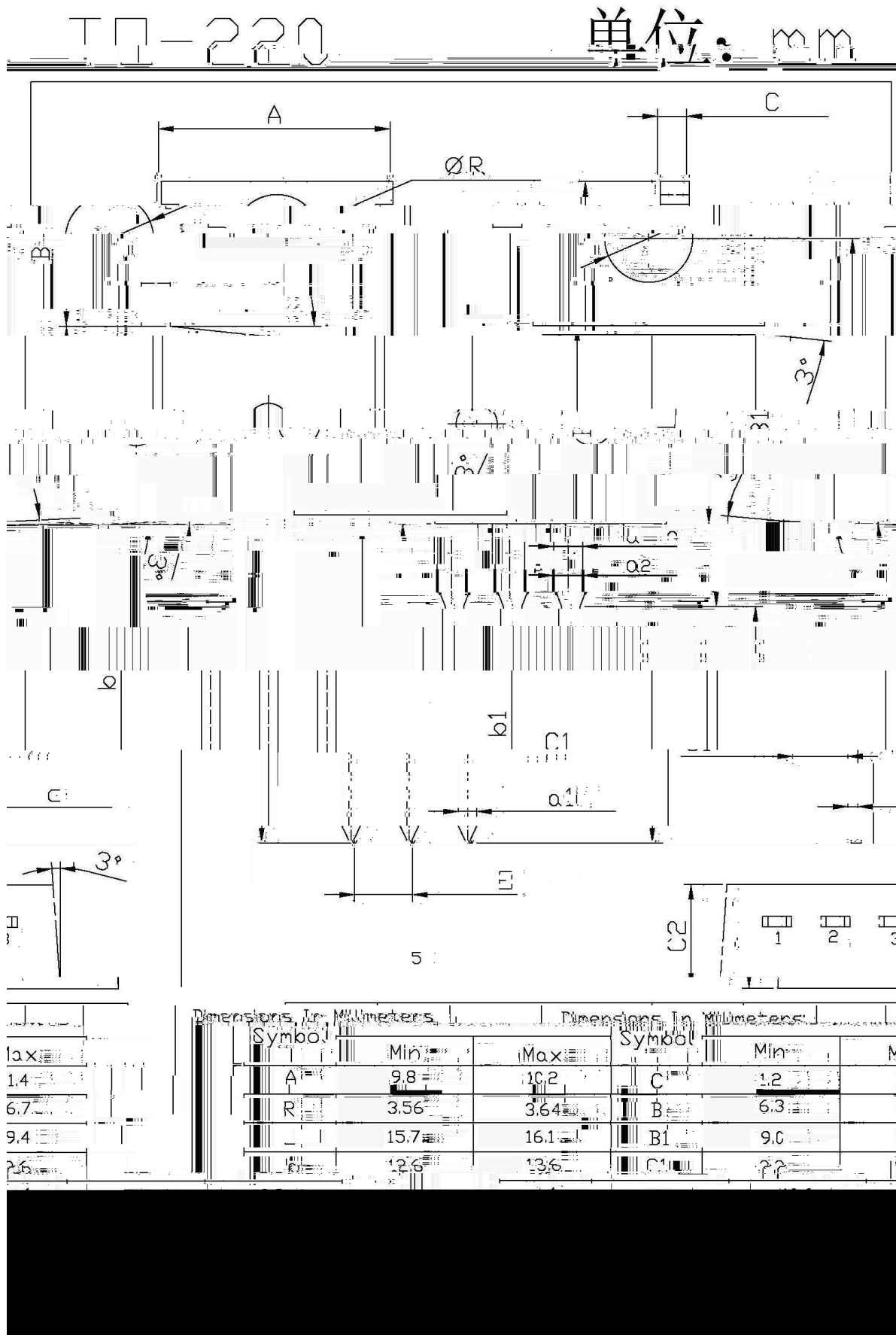
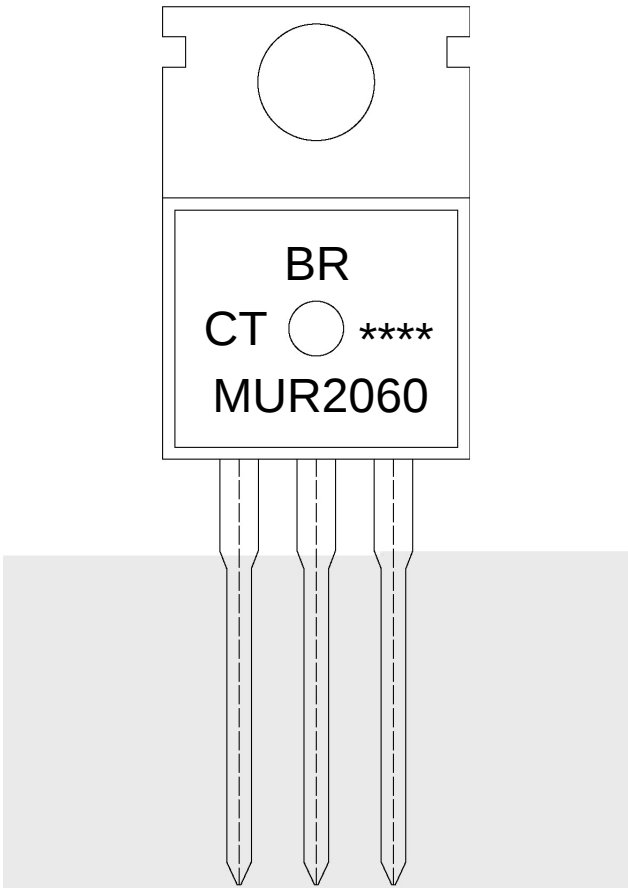


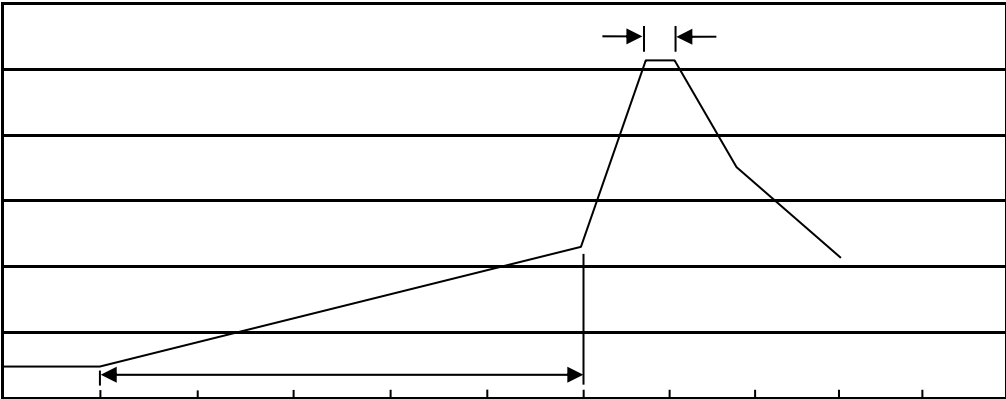
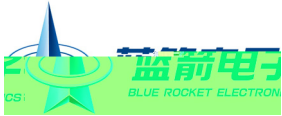
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current







|         |                                       |
|---------|---------------------------------------|
| BR      |                                       |
| MUR2060 |                                       |
| CT:     |                                       |
| ****    |                                       |
| Note:   |                                       |
| BR:     | Company Code                          |
| MUR2060 | Product Type Code                     |
| CT:     | Internal Structure                    |
| ****:   | Lot No. Code, code change with Lot No |



Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , 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.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

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