

**MBR3060CT**  
Rev.H Oct.-2018

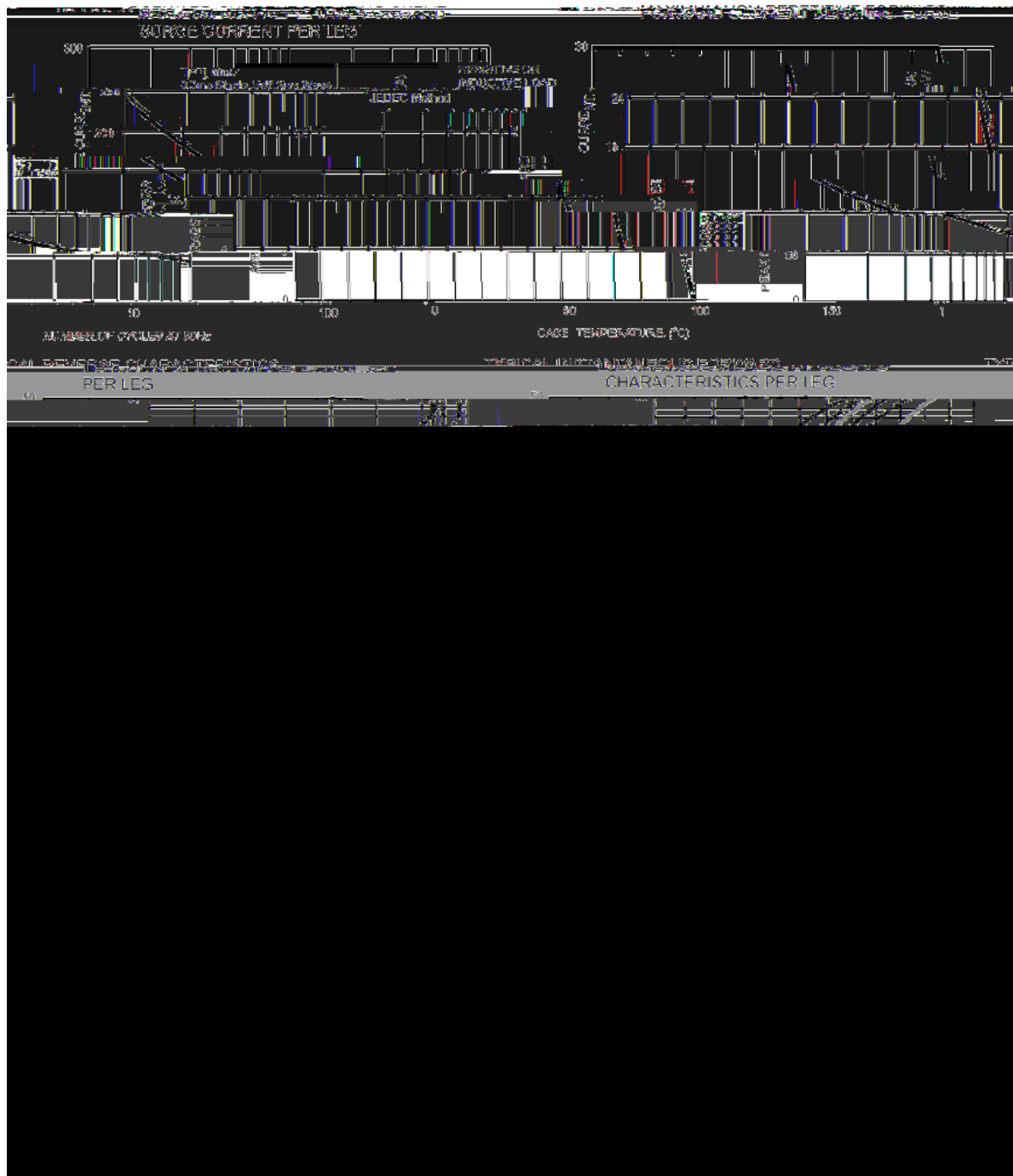
**/ Absolute Maximum Ratings(Ta=25 )**

| Parameter                                 | Symbol                     | Rating  | Unit |
|-------------------------------------------|----------------------------|---------|------|
| Peak Repetitive Reverse Voltage           | $V_{RRM}$                  | 60      | V    |
| RMS Voltage                               | $V_{RMS}$                  | 42      | V    |
| DC Blocking Voltage                       | $V_{DC}$                   | 60      | V    |
| Peak Repetitive Forward Current           | $I_{F(AV)}$                | 15      | A    |
|                                           | $I_{F(AV)}$ 15F9tal device | 30      | A    |
| Non-Repetitive Peak Forward Surge Current | $I_{FSM}$                  | 250     | A    |
| Peak Forward Surge Current                | $I_{FRM}$                  | 30      | A    |
| Repetitive Peak Reverse Surge Current     | $I_{RRM}$                  | 0.5     | A    |
| Thermal Resistance Junction to Case       | $R_{\theta Jc}$            | 1.0     | /W   |
| Junction Temperature Range                | $T_j$                      | 150     |      |
| Storage Temperature Range                 | $T_{stg}$                  | -55 150 |      |

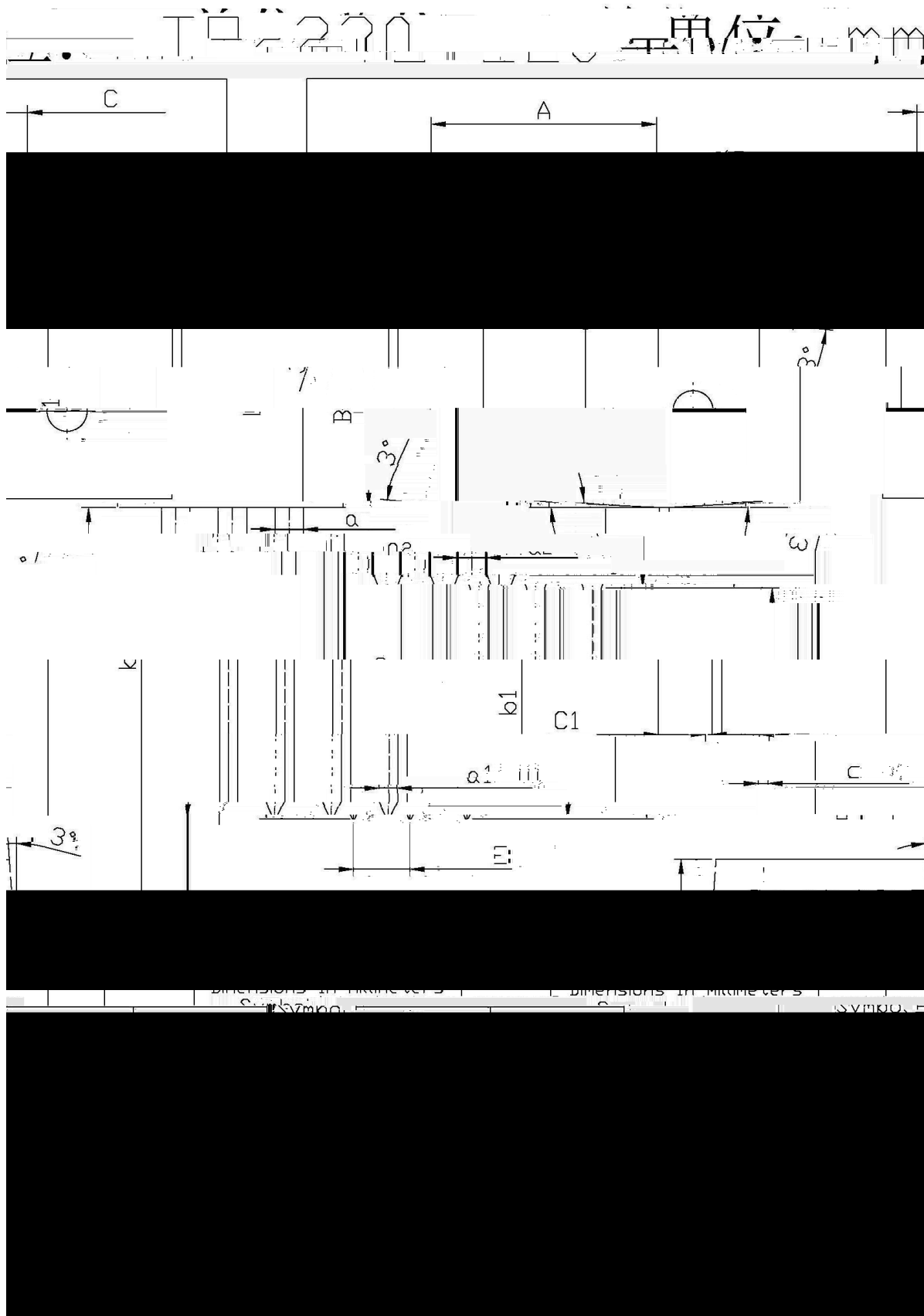
**/ Electrical Characteristics(Ta=25 )**

| Parameter                     | Symbol | Test Conditions     | Min | Typ | Max  | Unit       |
|-------------------------------|--------|---------------------|-----|-----|------|------------|
| Forward Voltage               | $V_F$  | $I_F=15A(T_C=25 )$  |     |     | 0.75 | V          |
|                               |        | $I_F=15A(T_C=125 )$ |     |     | 0.65 | V          |
|                               |        | $I_F=30A(T_C=25 )$  |     |     | 0.95 | V          |
|                               |        | $I_F=30A(T_C=125 )$ |     |     | 0.85 | V          |
| Instantaneous Reverse Current | $I_R$  | $T_C=25$            |     |     | 0.2  | mA         |
|                               |        | $T_C=125$           |     |     | 50   | mA         |
| Voltage Rate of Change        | dv/dt  |                     |     |     | 1000 | V/ $\mu$ s |

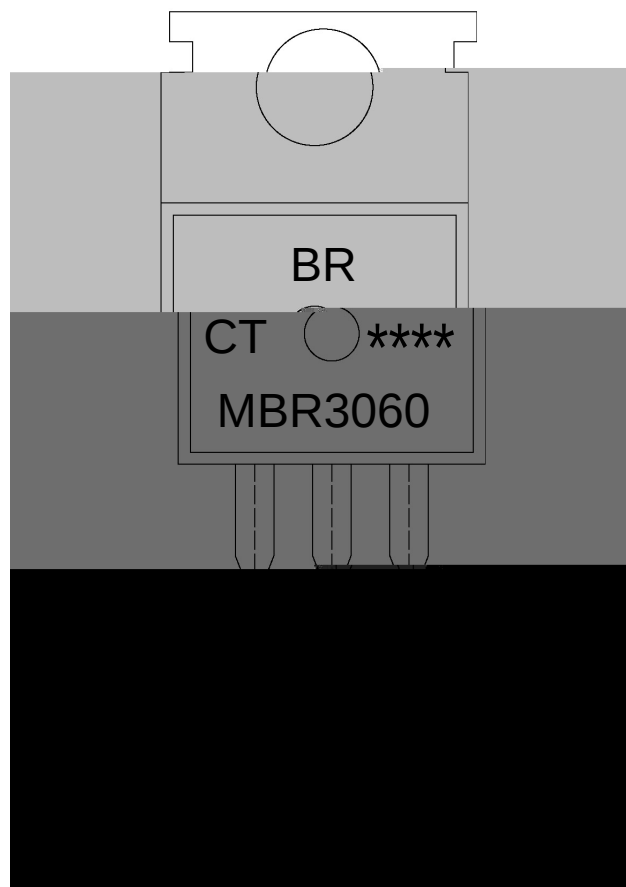
/ Electrical Characteristic Curve



/ PackageDimensions



## / Marking Instructions



BR

MBR3060

CT:

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Note:

BR: Company Code

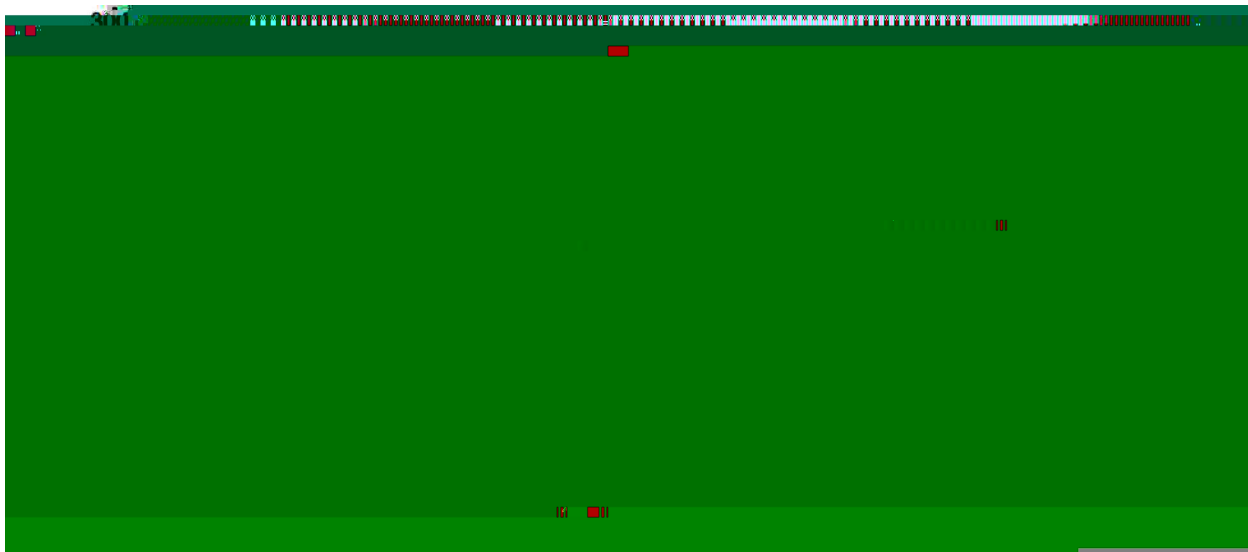
MBR3060 Product Type.

CT: Internal Structure

\*\*\*\*: 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±0.5sec; | 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 <sup>3</sup> ) |
|--------------|-----------|----------------|-----------------|-----------------------|-----------------|-----------|-----------|-----------|-------------------------|
|              | Units/Bag | Bags/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Bag       | Inner Box | Outer Box |                         |