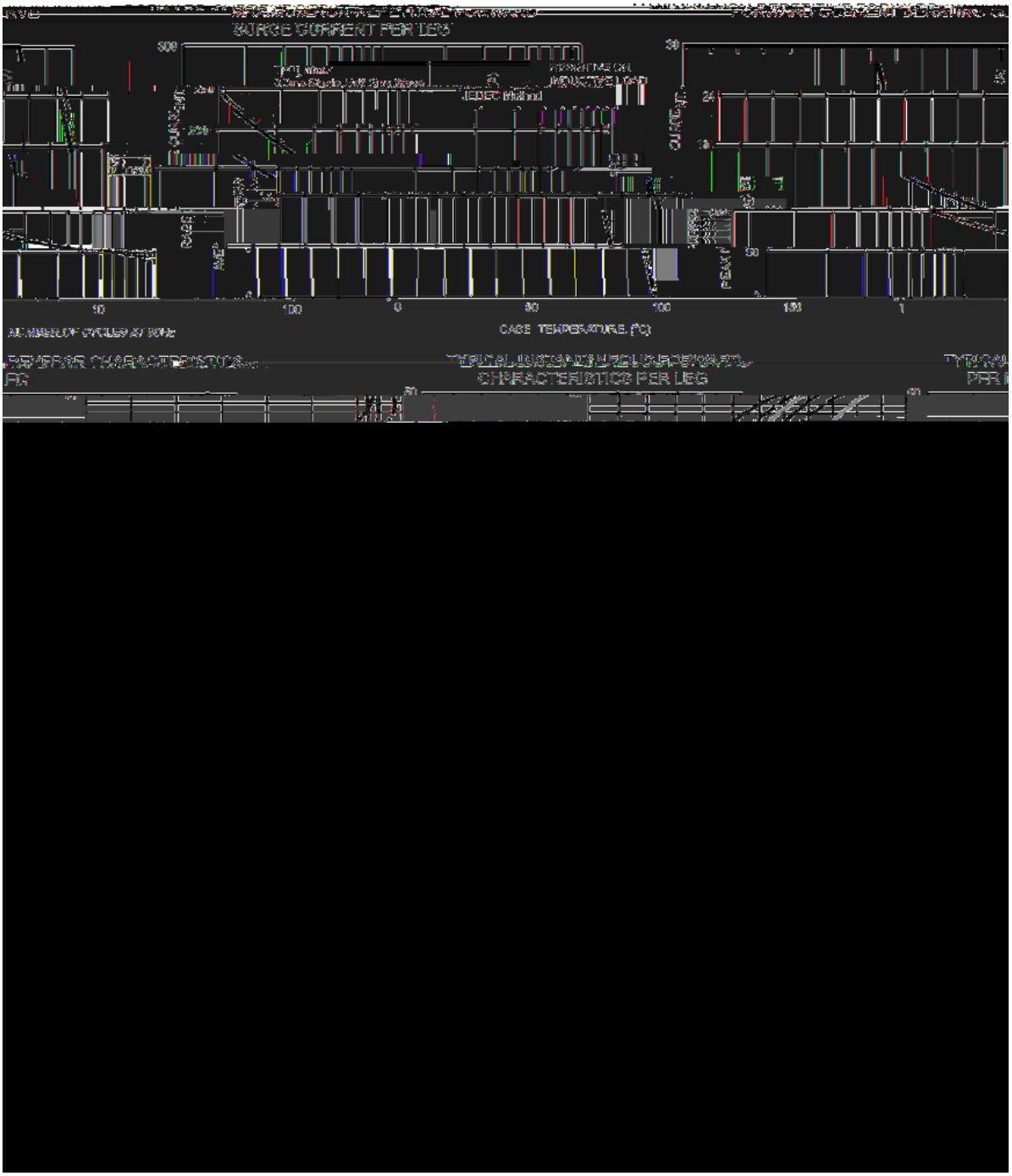
## / Absolute Maximum Ratings(Ta=25 )

| 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 | |

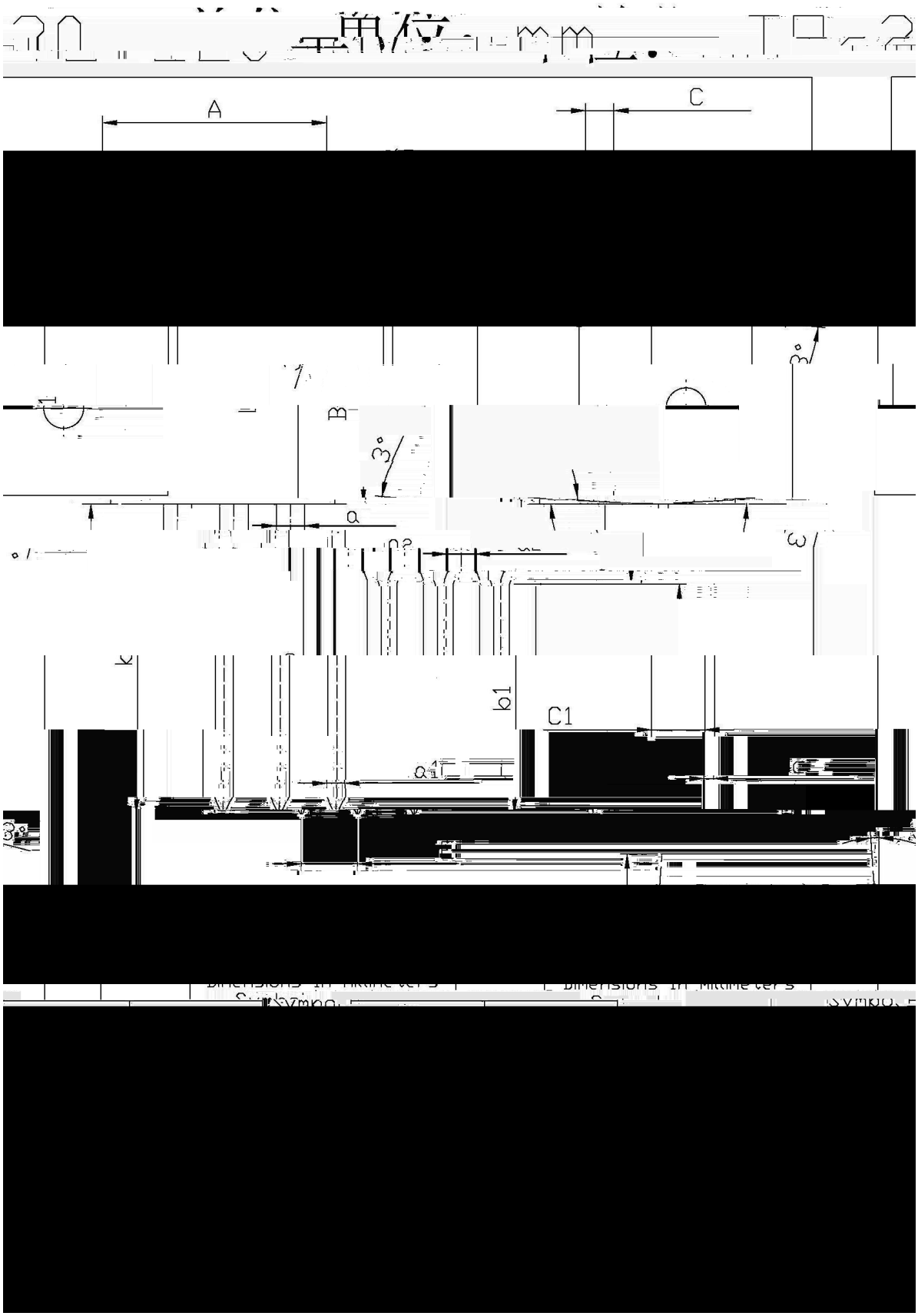
## / Electrical Characteristics(Ta=25 )

| 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/μs |

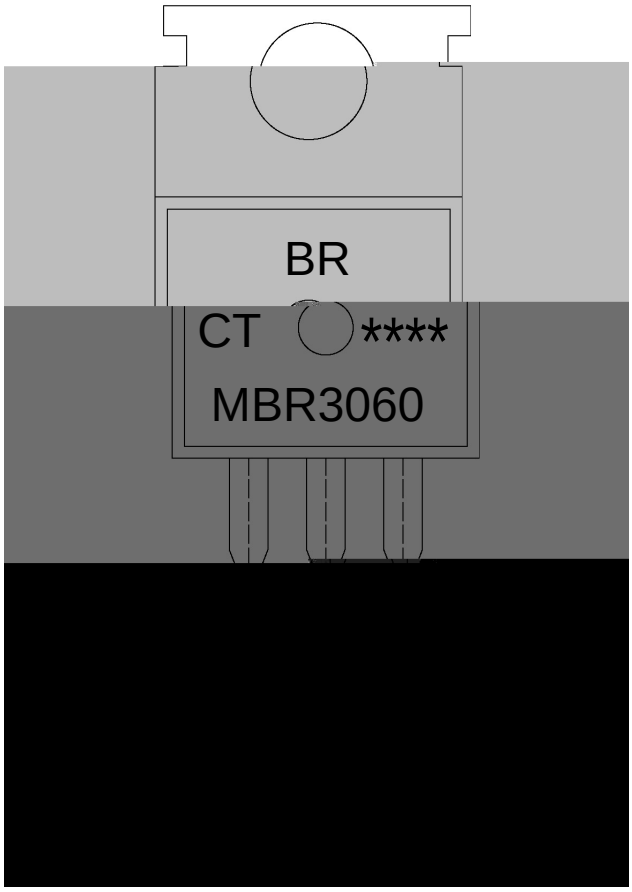
## / Electrical Characteristic Curve



## / PackageDimensions



## / Marking Instructions




BR

MBR3060

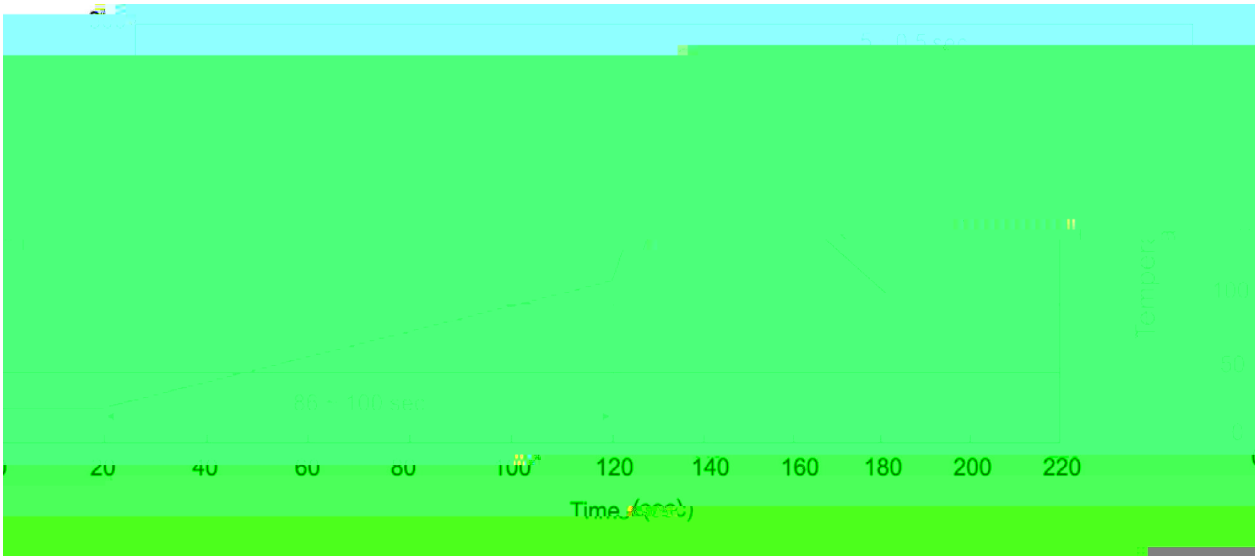
CT:

****

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$^3$) |
|---|---|---|---|---|---|---|---|---|
| | Units/Bag / | Bags/Inner Box / | Units/Inner Box / | Inner Boxes/Outer Box / | Units/Outer Box / | Bag | Inner Box | Outer Box |