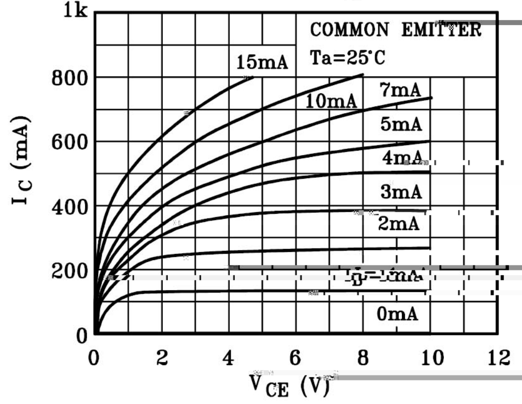
| v ˝Ω̣<br>Parameter | ɣ ᴺ<br>Symbol | ˝Ω̣ Ө<br>Rating | D Ꞗ<br>Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | 120 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | 120 | V |
| Emitter to Base Voltage | $V_{EBO}$ | 5.0 | V |
| Collector Current - Continuous | $I_C$ | 800 | mA |
| Emitter Current - Continuous | $I_E$ | -800 | mA |
| Collector Power Dissipation | $P_C$ | 1.0 | W |
| Junction Temperature | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -55 150 | |

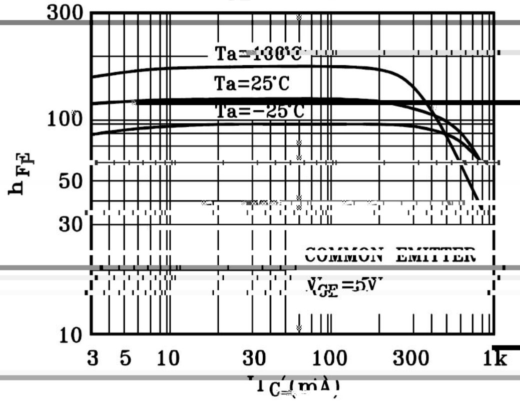
| v ˝Ω̣<br>Parameter | ɣ ᴺ<br>Symbol | ⅃ ꞉ᛏ Ţ<br>Test Conditions | ῳ ṇ Ө<br>Min | Ɛ ʒ Ө<br>Typ | ῳ ᶻ Ө<br>Max | D Ꞗ<br>Unit |
|---|---|---|---|---|---|---|
| Collector to Emitter Breakdown Voltage | $V_{CEO}$ | $I_C$=10mA $I_B$=0 | 120 | | | V |
| Collector to Base Breakdown Voltage | $V_{EBO}$ | $I_E$=1mA $I_C$=0 | 5.0 | | | V |
| Collector Cut-Off Current | $I_{CBO}$ | $V_{CB}$=120V $I_E$=0 | | | 0.1 | μA |
| Emitter Cut-Off Current | $I_{EBO}$ | $V_{EB}$=5V $I_C$=0 | | | 0.1 | μA |

## / Electrical Characteristic Curve

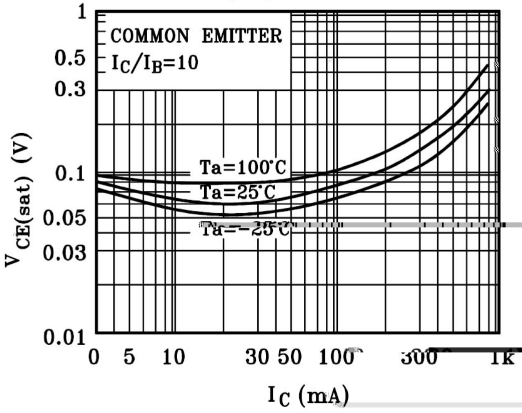
$I_C - V_{CE}$



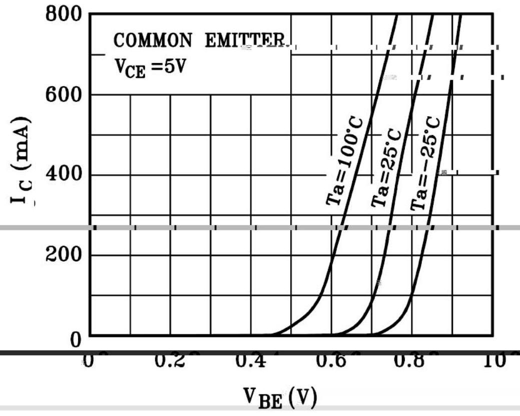
$h_{FE} - I_C$



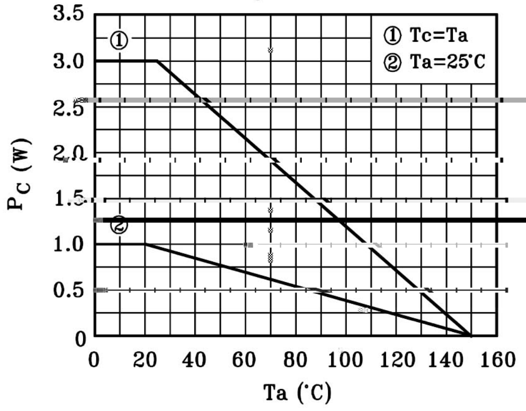
$V_{CE(sat)} - I_C$



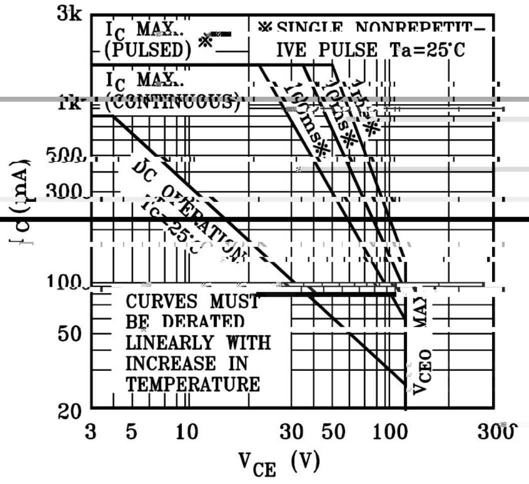
$I_C - V_{BE}$



$P_C - Ta$

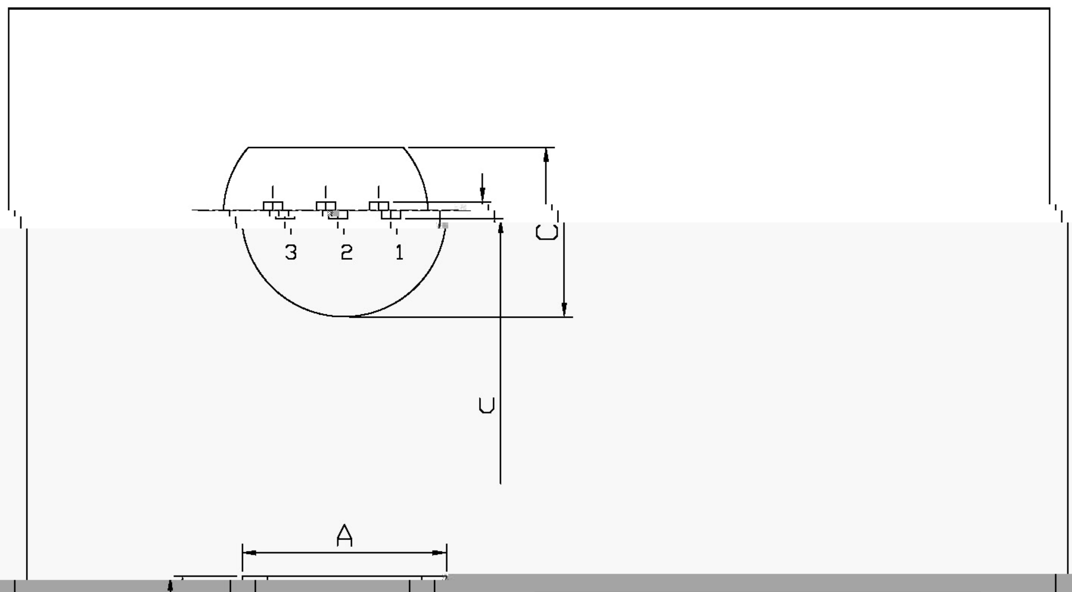


SAFE OPERATING AREA



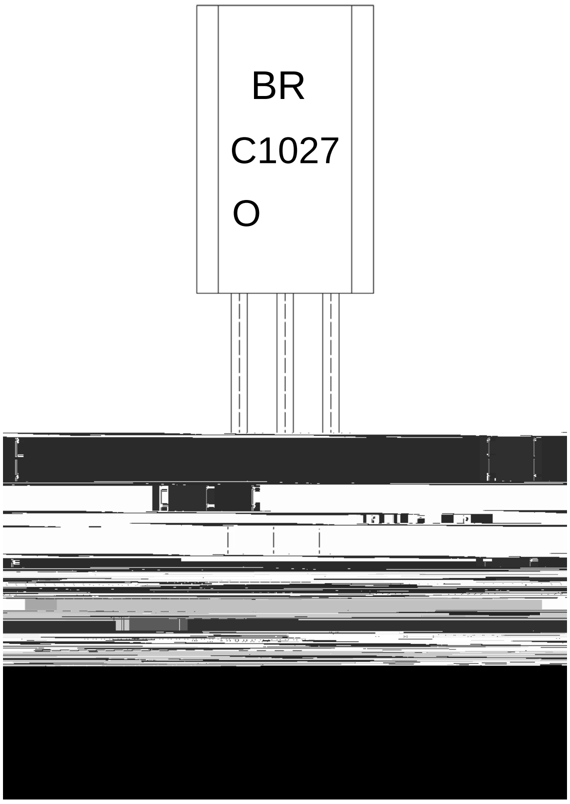
## / Package Dimensions

TO-92LM Unit: mm



| Symbol | Dimensions In Millmeters | |
|---|---|---|
| | Min | Max |
| A | 4.7 | 5.1 |

## / Marking Instructions



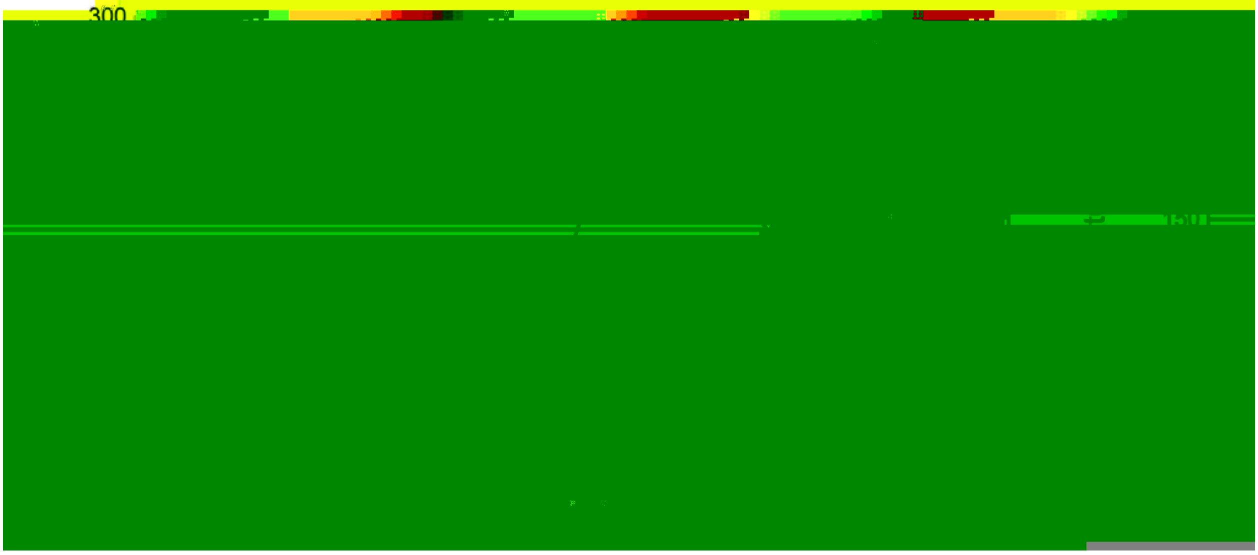
ب ˝ χ

| | |
|---|---|
| EU꞊ | ꞕӂ ʀ ᴎ Ꮑ |
| F435 : χ | ꞕӂ ʒ ᴺ Ꮑ |
| R꞊ | ꞕӂ kɪʜ˓ ⁶ Ꮑ |
| ---- χ | ꞕӂ ꟷ ғ ῆ ᴺ Ꮑ ɩ ҿ ꟷ ғ ῆ ᴺ ψ ק |

Note:

| | |
|---|---|
| BR: | Company Code. |
| C1027: | Product Type. |
| O: | $h_{FE}$ Classifications Symbol |
| ****: | Lot No. Code,code change with Lot No. |

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



ب ˝ χ
1 ỉ ♬ □ ỷ 25 Ḱ 150 ł ı `H ڙ 60 Ḱ 90sec;
2 Ś �□ ỷ 255 ° 5 ł ı `H ڙ `Y ߺ ᄍ 5 ° 0.5sec;
3 ì ˙ ٳ ˛ ɔ ঌ ỷ ᄍ 2 Ḱ 10 ł /sec.

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

## / Resistance to Soldering Heat Test Conditions

□ ỷ χ 270 ° 5 ł `H ڙ χ 10 ° 1 sec. Temp.:270 ° 5 ł Time:10 ° 1 sec

## / Packaging SPEC.

˜Ω ʈ ɣ է / BULK

| Package Type | Units | | | | | Dimension | | (unit mm3) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |

ߺ Ṿ ɣ է / AMMO

| Package Type | Units | | | | | Dimension (unit mm3) | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |

## / Notices