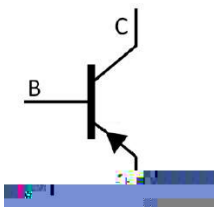


Low collector saturation, high speed switching time, complementary to KTC3209.

/

Power amplifier and switching applications.



|      |      |       |           |                        |          |   |     |     |          |   |          |
|------|------|-------|-----------|------------------------|----------|---|-----|-----|----------|---|----------|
| PIN1 | Base | PIN 2 | Collector | -1382alec4lec040607e71 | Tf2.2229 | 0 | TD0 | Tf1 | Tf2.2229 | 0 | T4MarE73 |
|------|------|-------|-----------|------------------------|----------|---|-----|-----|----------|---|----------|



| Parameter                      | Symbol    | Rating  | Unit |
|--------------------------------|-----------|---------|------|
| Collector to Base Voltage      | $V_{CBO}$ | -50     | V    |
| Collector to Emitter Voltage   | $V_{CEO}$ | -50     | V    |
| Emitter to Base Voltage        | $V_{EBO}$ | -5.0    | V    |
| Collector Current - Continuous | $I_C$     | -2.0    | A    |
| Collector Power Dissipation    | $P_C$     | 1.0     | W    |
| Junction Temperature           | $T_J$     | 150     |      |
| Storage Temperature Range      | $T_{stg}$ | -55 150 |      |

|           |        |                 |     |
|-----------|--------|-----------------|-----|
| Parameter | Symbol | Test Conditions | Min |
|-----------|--------|-----------------|-----|

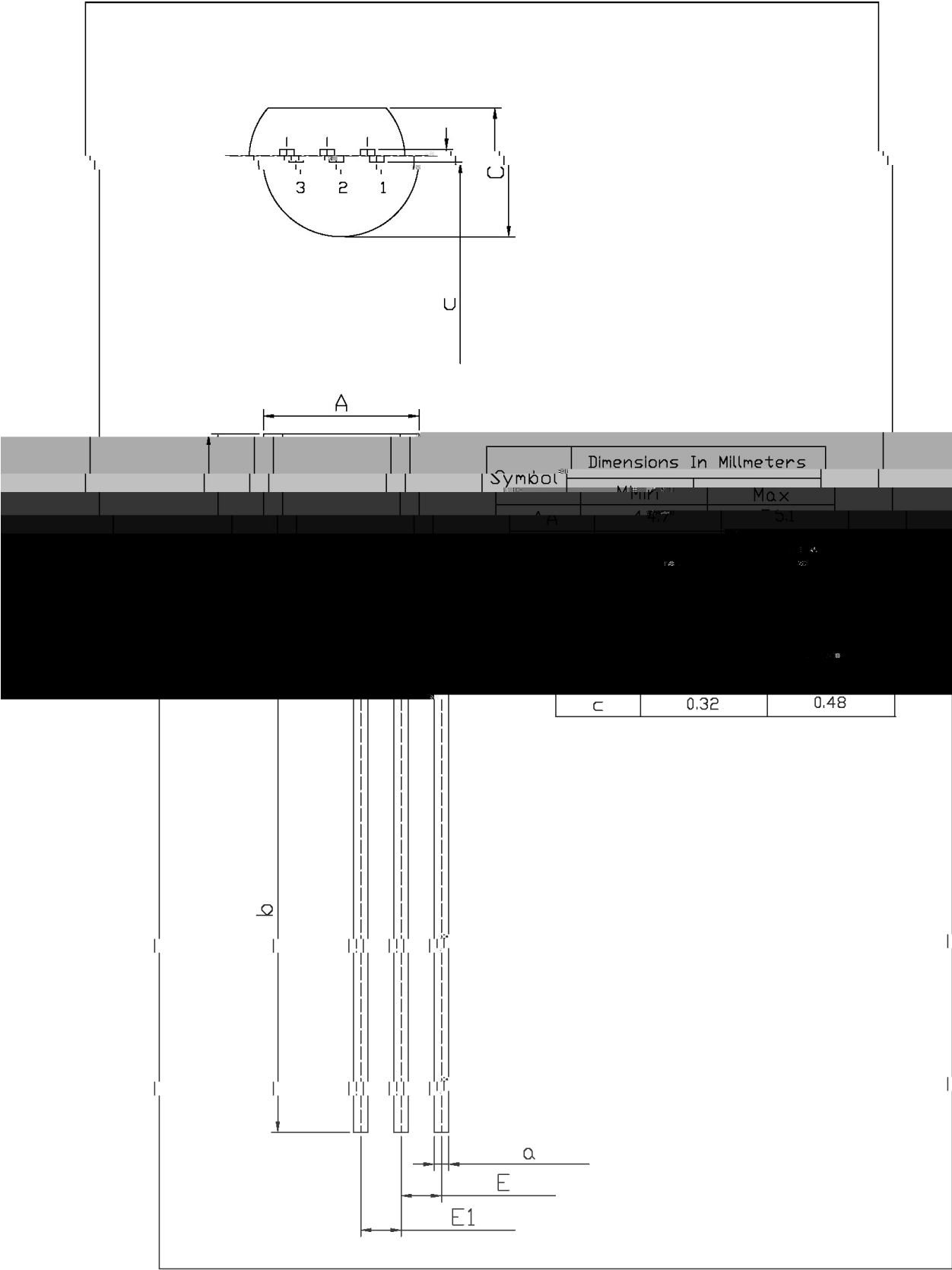
### / Electrical Characteristic Curve



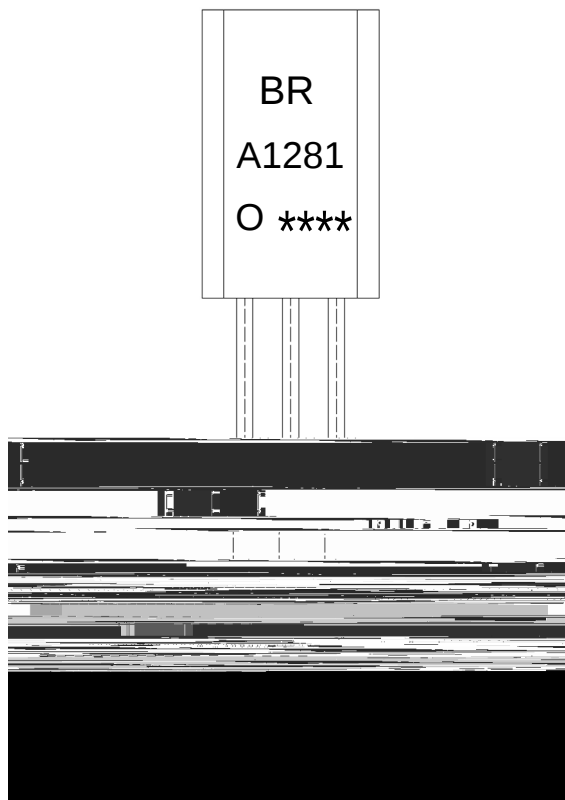
/ Package Dimensions

TO-92LM

Unit: mm



/ Marking Instructions



EU:-

D45 ; 4

R=  $k_{IH}$

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Note:

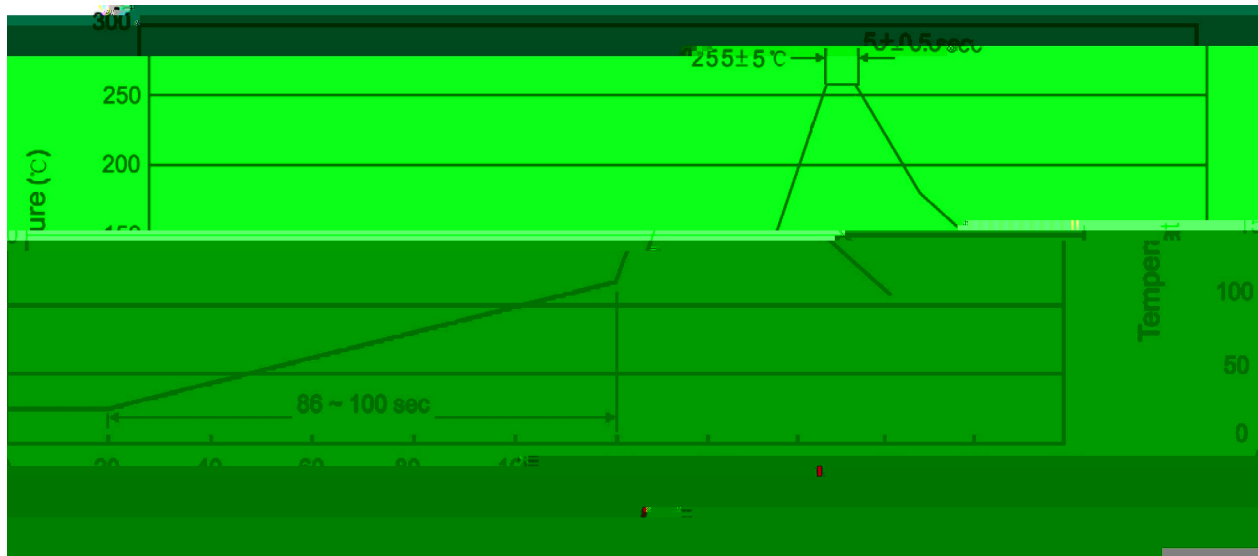
BR: Company Code.

A1281: Product Type.

O:  $h_{FE}$  Classifications Symbol

\*\*\*\*: Lot No. Code,code change with Lot No.

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



Note:

- |   |                        |                   |                        |                             |                                                                            |
|---|------------------------|-------------------|------------------------|-----------------------------|----------------------------------------------------------------------------|
| 1 | 25                     | 150 $\frac{3}{8}$ | 60                     | 90sec;                      | 1.Preheating:25~150 $\frac{3}{8}$ , Time:60~90sec.                         |
| 2 | 255 $\pm 5\frac{3}{8}$ |                   | 5 $\pm 0.5\frac{3}{8}$ | 5 $\pm 0.5\frac{3}{8}$ sec; | 2.Peak Temp.:255 $\pm 5\frac{3}{8}$ , Duration:5 $\pm 0.5\frac{3}{8}$ sec. |
| 3 |                        | 2                 | 10 $\frac{3}{8}$ /sec. |                             | 3. Cooling Speed: 2~10 $\frac{3}{8}$ /sec.                                 |

/ Resistance to Soldering Heat Test Conditions

270 $\pm 5\frac{3}{8}$       10 $\pm 1$  sec.      Temp.:270 $\pm 5\frac{3}{8}$       Time:10 $\pm 1$  sec

/ Packaging SPEC.

/ BULK

| Package Type | Units          |                     |                      |                            |                      | Dimension (unit mm3) |             |             |
|--------------|----------------|---------------------|----------------------|----------------------------|----------------------|----------------------|-------------|-------------|
|              | 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-92LM      | 1,000          | 8                   | 8,000                | 5                          | 40,000               | 135×190              | 237×172×102 | 560×245×195 |

/ AMMO

| Package Type | Units           |                     |                     |                            |                      | Dimension (unit mm3) |                            |
|--------------|-----------------|---------------------|---------------------|----------------------------|----------------------|----------------------|----------------------------|
|              | Units/tape<br>/ | Tape/Inner Box<br>/ | Rows/Inner Box<br>/ | Inner Boxes/Outer Box<br>/ | Units/Outer Box<br>/ | Inner Box            | Outer Box                  |
| TO-92LM      | 2,500           | 1                   | 100                 | 10                         | 25,000               | 328×230×42           | 480×346×235<br>547×407×268 |

/ Notices