

/ Descriptions

TO-252 PNP Silicon PNP transistor in a TO-252 Plastic Package.

/ Features

MJD41C
Complement to MJD41C.

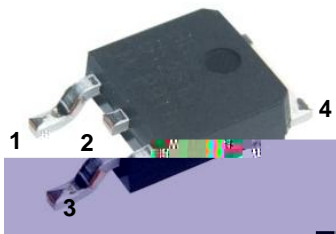
/ Applications

Medium power linear switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2,4 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

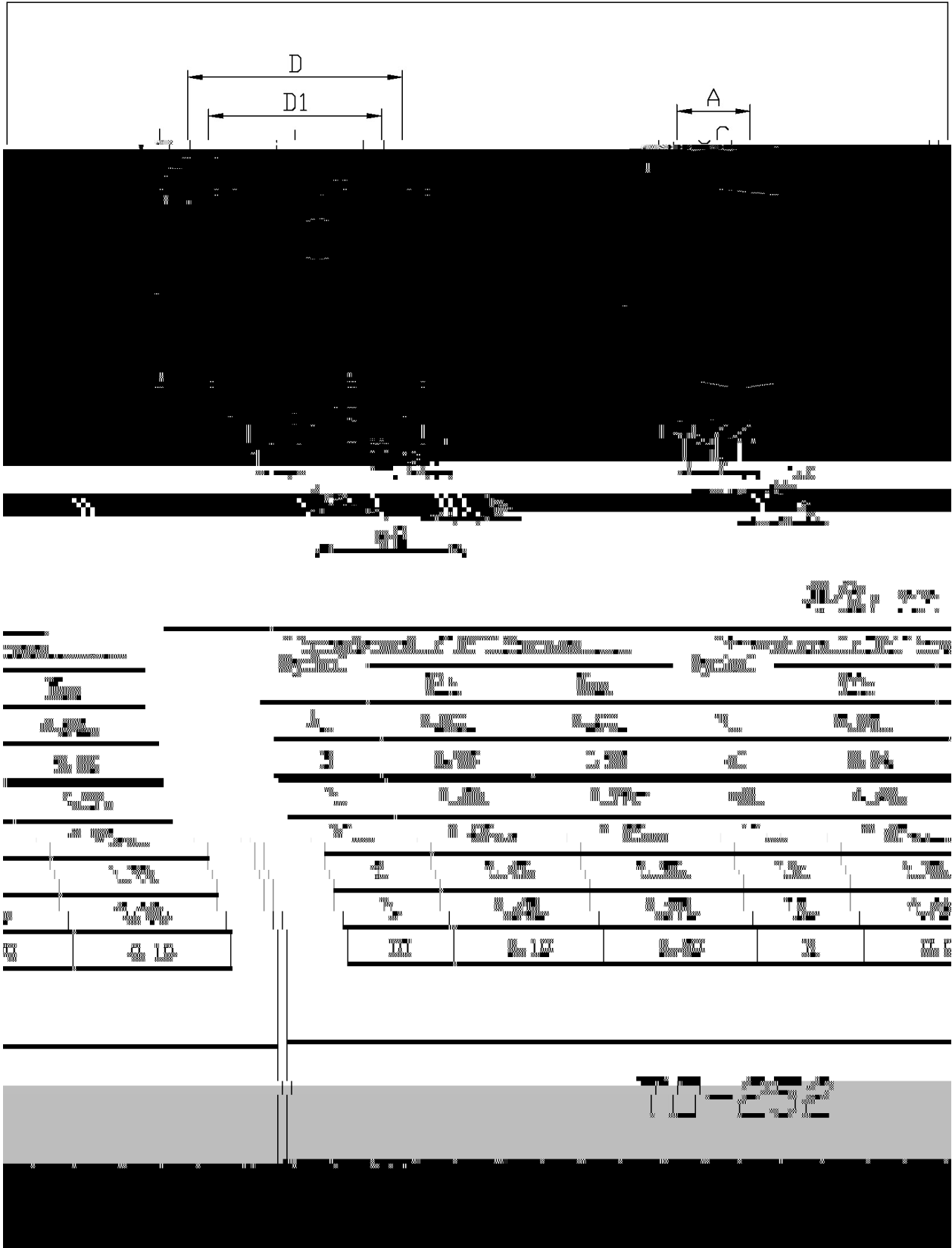
See Marking Instructions.

| Parameter | Symbol | Rating | Unit |
|--------------------------------|-----------------------------|---------|------|
| Collector to Base Voltage | V_{CBO} | -100 | V |
| Collector to Emitter Voltage | V_{CEO} | -100 | V |
| Emitter to Base Voltage | V_{EBO} | -5.0 | V |
| Collector Current - Continuous | I_C | -6.0 | A |
| Base Current - Continuous | I_B | -2.0 | A |
| Collector Power Dissipation | P_D | 1.75 | W |
| Collector Power Dissipation | $P_D(T_C=25^\circ\text{C})$ | 20 | W |
| Junction Temperature | T_j | 150 | |
| Storage Temperature Range | T_{stg} | -55 150 | |

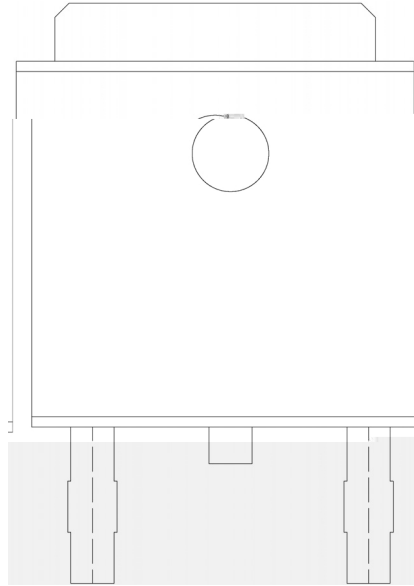
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--|-----------|----------------------------------|------|-----|-----|------|
| Collector to Emitter Breakdown Voltage | V_{CEO} | $I_C=-30\text{mA}$ $I_B=0$ | -100 | | | V |
| Collector Cut-Off Current | I_{CEO} | $V_{CE}=-60\text{V}$ $I_B=0$ | | | -50 | A |
| Collector Cut-Off Current | I_{CES} | $V_{CE}=-100\text{V}$ $V_{BE}=0$ | | | -10 | A |
| Emitter Cut-Off Current | I | | | | | |

/ **Electrical Characteristic Curve**

/ Package Dimensions



/ Marking Instructions



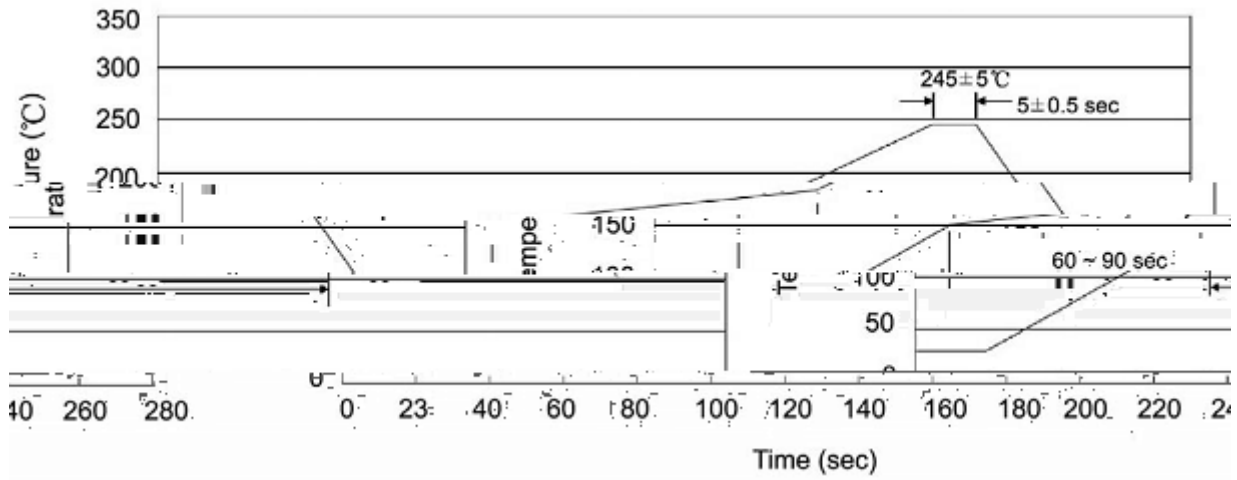
BR

MJD42C

Note:

BR:

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

| Package Type | Units | | Dimension | (unit mm ³) |
|--------------|------------|-----------------|-----------|-------------------------|
| | Units/Reel | Reels/Inner Box | | |