# Silicon NPN Power Transistors BU932

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## DESCRIPTION

·With TO-3 package
·DARLINGTON

## APPLICATIONS

·Automotive ignition applications
·Inverters circuits for motor controls

**PINNING (See Fig.2)**

| PIN | DESCRIPTION |
|---|---|
| 1 | Base |
| 2 | Emitter |
| 3 | Collector |

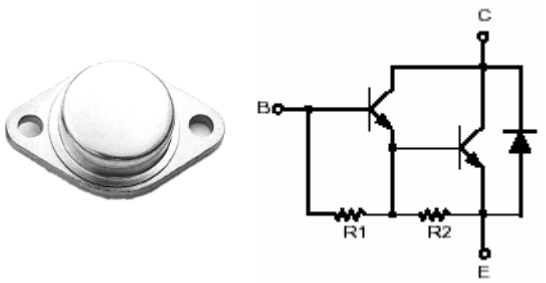


**Fig.1 simplified outline (TO-3) and symbol**

## Absolute maximum ratings(Ta=25□)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|---|---|---|---|---|
| $V_{CBO}$ | Collector-base voltage | Open emitter | 500 | V |
| $V_{CEO}$ | Collector-emitter voltage | Open base | 450 | V |
| $V_{EBO}$ | Emitter-base voltage | Open collector | 5 | V |
| $I_C$ | Collector current | | 15 | A |
| $I_{CM}$ | Collector current-peak | | 30 | A |
| $I_B$ | Base current | | 1 | A |
| $I_{BM}$ | Base current-peak | | 5 | A |
| $P_T$ | Total power dissipation | $T_C$≤25□ | 150 | W |
| $T_j$ | Junction temperature | | 200 | □ |
| $T_{stg}$ | Storage temperature | | -40~200 | □ |

## THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | VALUE | UNIT |
|---|---|---|---|
| $R_{th\ j\text{-}c}$ | Thermal resistance from junction to case | 1.0 | □/W |

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## CHARACTERISTICS

**Tj=25□ unless otherwise specified**

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| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|---|---|---|---|---|---|---|
| $V_{CEO(SUS)}$ | Collector-emitter sustaining voltage | $I_C$=100mA ; $I_B$=0 | 450 | | | V |
| $V_{CEsat}$ | Collector-emitter saturation voltage | $I_C$=8A; $I_B$=150mA | | | 1.8 | V |
| $V_{BEsat}$ | Base-emitter saturation voltage | $I_C$=8A; $I_B$=150mA | | | 2.2 | V |
| $I_{CEO}$ | Collector cut-off current | $V_{CE}$=450V ;$I_B$=0 | | | 1.0 | mA |
| $I_{CES}$ | Collector cut-off current | $V_{CE}$=450V ;$V_{BE}$=0<br>$T_C$=125□ | | | 1.0<br>5.0 | mA |
| $I_{EBO}$ | Emitter cut-off current | $V_{EB}$=5V; $I_C$=0 | | | 50 | mA |
| $h_{FE}$ | DC current gain | $I_C$=5A ; $V_{CE}$=10V | 300 | | | |
| $V_F$ | Diode forward voltage | $I_F$=10A | | | 2.8 | V |



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**PACKAGE OUTLINE**

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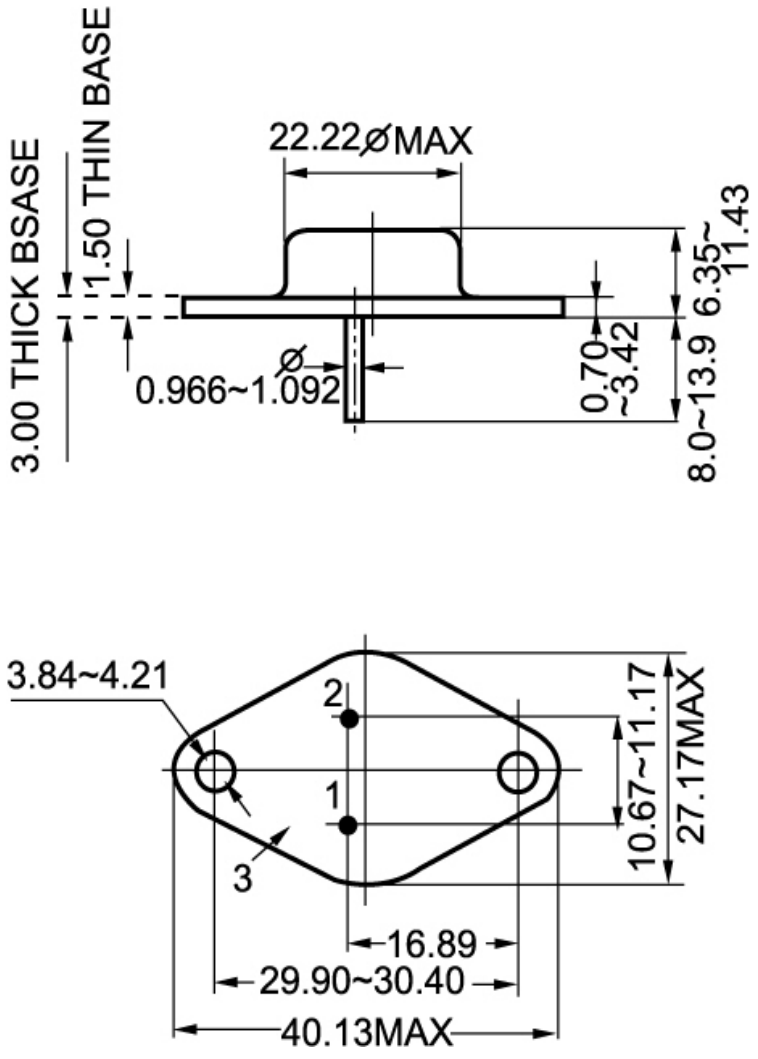


**Fig.2 Outline dimensions**



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