



DHA®

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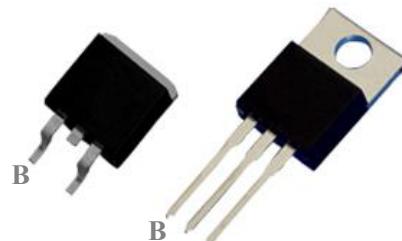
BU941ZB

NPN Power Darlington Transistor**Applications**

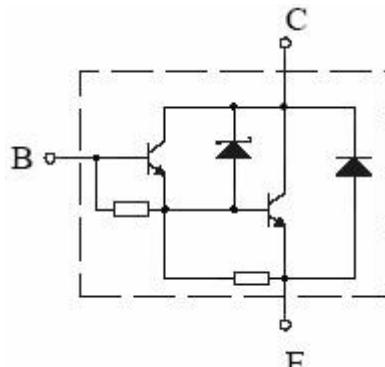
High ruggedness electronic ignitions and control motor.

Features

- Including clamping zener & freewheeling diodes.

**Absolute maximum ratings**

| Symbol | Parameter | Unit | Value |
|------------------|--|------|-----------|
| V _{cbo} | Collector-base voltage | V | 350 |
| V _{ceo} | Collector-emitter voltage | V | 350 |
| V _{ebo} | Emitter-base voltage | V | 5 |
| I _c | Collector current | A | 15 |
| I _{cm} | Collector peak current | A | 30 |
| I _b | Base current | A | 1 |
| I _{bm} | Base peak current | A | 2 |
| P _{tot} | Power dissipation T _c =25°C/With heat sink | W | 150 |
| T _j | Junction temperature | °C | 175 |
| T _{stg} | Storage temperature | °C | -65 ~ 175 |



Internal Equivalent Circuit

Electrical parameters (T_{amb} = 25°C)

| Symbol | Parameter | Unit | Value | Test conditions |
|----------------------|--------------------------------------|------|--------------|---|
| I _{ceo} | Collector-emitter current | µA | ≤50 | V _{ce} =300V |
| V _{ceo} | Collector-emitter voltage | V | ≥350 | I _c =100mA I _b =0 |
| I _{ebo} | Emitter-base current | mA | ≤20 | V _{eb} =5.0V I _{co} =0 |
| V _{ce(sat)} | Collector-emitter saturation voltage | V | ≤1.8 ≤1.8 | I _c =8A I _b =110mA I _c =10A I _b =250mA |
| V _{be(sat)} | Base-emitter saturation voltage | V | ≤2.2 ≤2.5 | I _c =8A I _b =110mA I _c =10A I _b =250mA |
| h _{FE} | DC current gain | | ≥300 | I _c =5A V _{ce} =5V |
| V _{fEC} | Diode forward voltage | V | ≤2.5 | I _f =10A |
| V _{CL} | Clamping voltage | V | 350~500 | I _c =100mA |