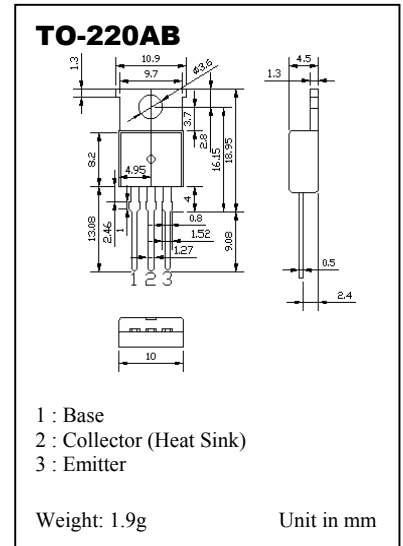


NPN SILICON EPITAXIAL POWER TRANSISTOR

... designed for power linear and switching applications.
 ... complementary to BD912.

MAXIMUM RATINGS

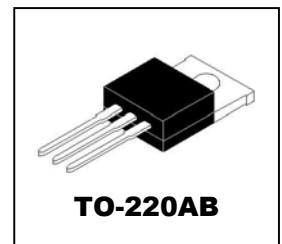
| Characteristic | Symbol | Value | Unit |
|--|---------------------------------|-----------|------|
| Collector Base Voltage (IE=0) | V _{CB0} | 100 | V |
| Collector Emitter Voltage (IB=0) | V _{CEO} | 100 | V |
| Emitter Base Voltage (IC=0) | V _{EB0} | 5 | V |
| Collector Current | I _c , I _E | 15 | A |
| Base Current | I _B | 5 | A |
| Total Power Dissipation T _c ≤25°C | P _{tot} | 90 | W |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature Range | T _{stg} | -65 ~ 150 | °C |



ELECTRICAL CHARACTERISTICS (T_c = 25 °C)

| Characteristic | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|--------------------------------------|------------------------|---|------|------|------|------|
| Collector Cutoff Current | I _{CBO} | V _{CB} =100V, I _E =0 | - | - | 500 | μA |
| | | V _{CB} =100V, I _E =0, T _c =150°C | - | - | 5 | mA |
| Collector Cutoff Current | I _{CEO} | V _{CB} =50V, I _B =0 | - | - | 1 | mA |
| Emitter Cutoff Current | I _{EB0} | V _{EB} =5V, I _C =0 | - | - | 1 | mA |
| DC Current Gain | h _{FE} * | V _{CE} =4V, I _C =0.5A | 40 | - | 250 | - |
| | | V _{CE} =4V, I _C =5A | 15 | - | 150 | - |
| | | V _{CE} =4V, I _C =10A | 5 | - | - | - |
| Collector Emitter Saturation Voltage | V _{CE(sat)} * | I _B =0.5A, I _C =5A | - | - | 1 | V |
| | | I _B =2.5A, I _C =10A | - | - | 3 | V |
| Base Emitter Saturation Voltage | V _{BE(sat)} * | I _B =2.5A, I _C =10A | - | - | 2.5 | V |
| Base Emitter Voltage | V _{BE} * | V _{CE} =4V, I _C =5A | - | - | 1.5 | V |
| Collector Emitter Sustaining Voltage | V _{CE(sus)} * | I _B =0, I _C =100mA | 100 | - | - | V |
| Transition Frequency | f _T | V _{CE} =4V, I _C =0.5A | 3 | - | - | MHz |

*Pulsed: Pulse duration=300μs, duty cycle1.5%.



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