

Specifications

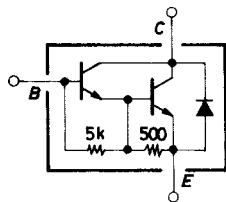
Absolute Maximum Ratings at Ta = 25°C

| Parameter | Symbol | Conditions | Ratings | Unit |
|------------------------------|-----------|--------------------------|-------------|--------------------|
| Collector-to-Base Voltage | V_{CB0} | | 80 | V |
| Collector-to-Emitter Voltage | V_{CE0} | | 60 | V |
| Emitter-to-Base Voltage | V_{EB0} | | 6 | V |
| Collector Current | I_C | | 3 | A |
| Collector Current (Pulse) | I_{CP} | | 6 | A |
| Collector Dissipation | P_C | | 1 | W |
| | | $T_c=25^{\circ}\text{C}$ | 15 | W |
| Junction Temperature | T_j | | 150 | $^{\circ}\text{C}$ |
| Storage Temperature | T_{stg} | | -55 to +150 | $^{\circ}\text{C}$ |

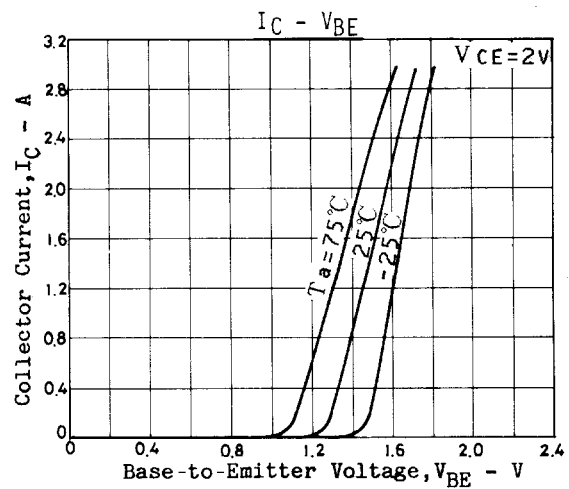
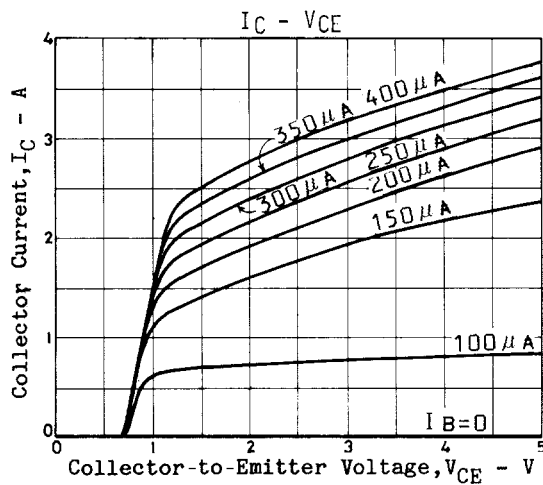
Electrical Characteristics at Ta = 25°C

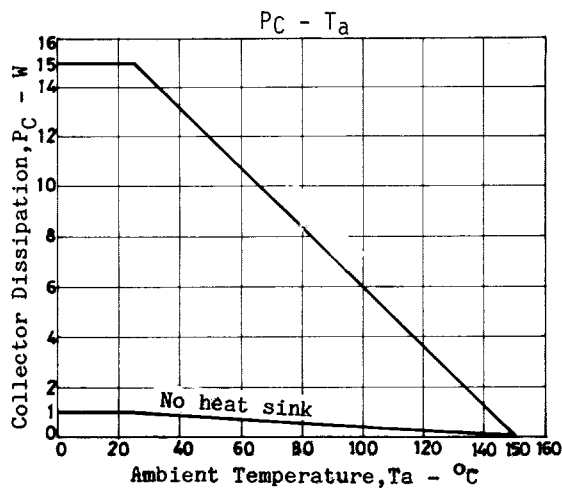
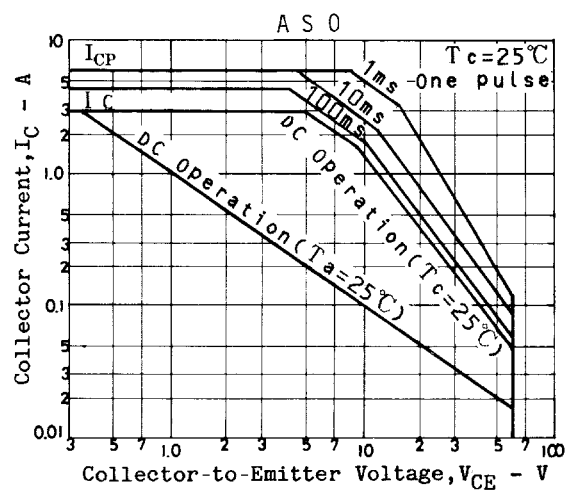
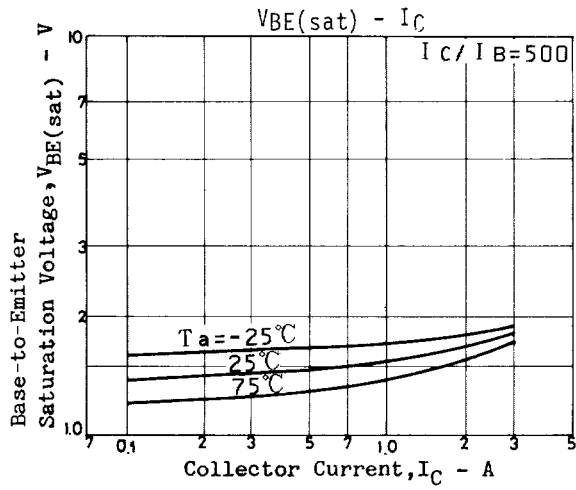
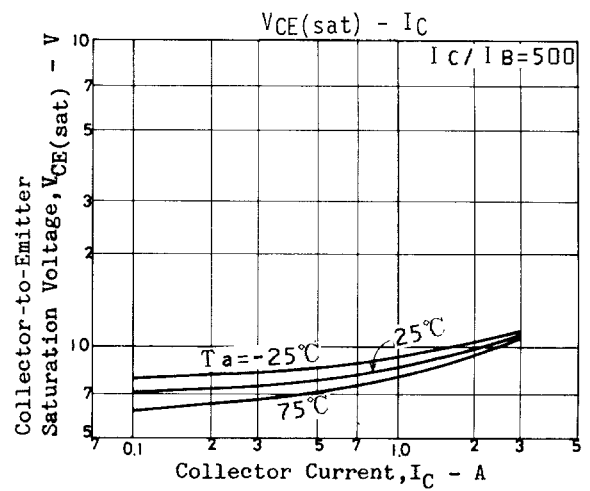
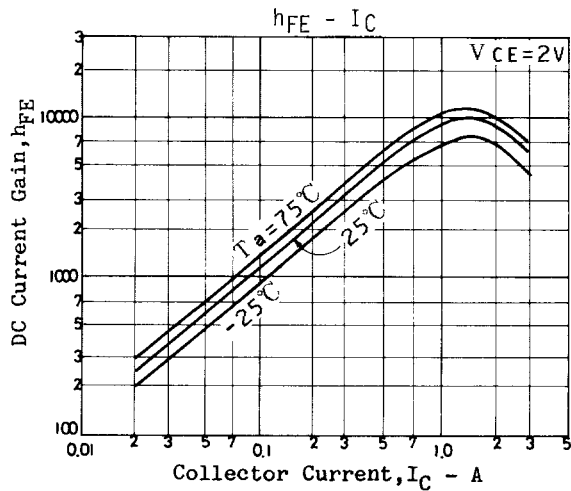
| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|---------------|-----------------------------------|---------|-----|-----|---------------|
| | | | min | typ | max | |
| Collector Cutoff Current | I_{CBO} | $V_{CB}=60\text{V}, I_E=0$ | | | 10 | μA |
| Emitter Cutoff Current | I_{EBO} | $V_{EB}=5\text{V}, I_C=0$ | | | 2.5 | mA |
| DC Current Gain | h_{FE1} | $V_{CE}=2\text{V}, I_C=1\text{A}$ | 2000 | | | |
| | h_{FE2} | $V_{CE}=2\text{V}, I_C=2\text{A}$ | 1000 | | | |
| Collector-to-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=2\text{A}, I_B=4\text{mA}$ | | | 1.5 | V |
| Base-to-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C=2\text{A}, I_B=4\text{mA}$ | | | 2.0 | V |
| Collector-to-Base Breakdown Voltage | $V_{(BR)CBO}$ | $I_C=1\text{mA}, I_E=0$ | 80 | | | V |
| Collector-to-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=25\text{mA}, R_{BE}=\infty$ | 60 | | | V |

Electrical Connection



Unit (resistance : Ω)





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