

SANYO

No.2369A

2SD1817

NPN Epitaxial Planar Silicon Transistor

Driver Applications

Applications

- . Motor drivers, hammer drivers, relay drivers

Features

- . High DC current gain
- . Small and slim package permitting the 2SD1817-applied sets to be made more compact

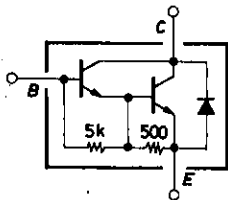
Absolute Maximum Ratings at Ta=25°C

| | | | unit |
|------------------------------|------------------|-------------|------|
| Collector to Base Voltage | V _{CB0} | 80 | V |
| Collector to Emitter Voltage | V _{CEO} | 60 | V |
| Emitter to Base Voltage | V _{EBO} | 6 | V |
| Collector Current | I _C | 3 | A |
| Collector Current(Pulse) | I _{CP} | 6 | A |
| Collector Dissipation | P _C | 1 | W |
| | | 15 | W |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature | T _{stg} | -55 to +150 | °C |

Electrical Characteristics at Ta=25°C

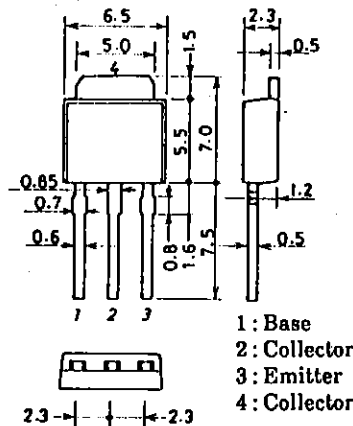
| | | | min | typ | max | unit |
|--------------------------|----------------------|--|------|-----|-----|------|
| Collector Cutoff Current | I _{CB0} | V _{CB} =60V, I _E =0 | | | 10 | µA |
| Emitter Cutoff Current | I _{EBO} | V _{EB} =5V, I _C =0 | | | 2.5 | mA |
| DC Current Gain | h _{FE} (1) | V _{CE} =2V, I _C =1A | 2000 | | | |
| | h _{FE} (2) | V _{CE} =2V, I _C =2A | 1000 | | | |
| C-E Saturation Voltage | V _{CE(sat)} | I _C =2A, I _B =4mA | | | 1.5 | V |
| B-E Saturation Voltage | V _{BE(sat)} | I _C =2A, I _B =4mA | | | 2.0 | V |
| C-B Breakdown Voltage | V(BR)CBO | I _C =1mA, I _E =0 | 80 | | | V |
| C-E Breakdown Voltage | V(BR)CEO | I _C =25mA, R _{BE} =∞ | 60 | | | V |

Electrical Connection



Unit (Resistance : Ω)

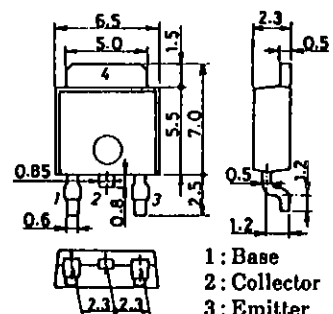
Package Dimensions 2045B (unit:mm)



- 1: Base
- 2: Collector
- 3: Emitter
- 4: Collector

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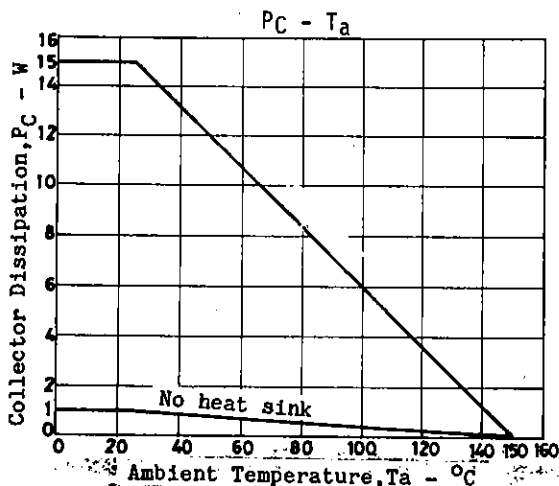
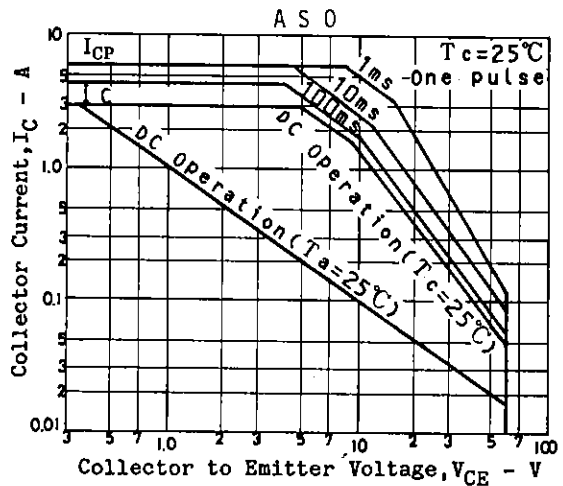
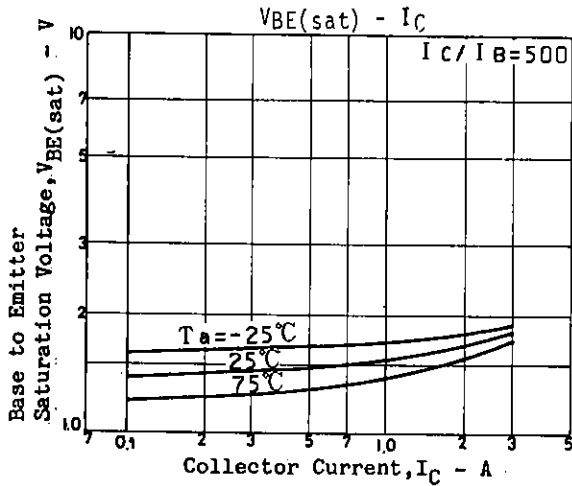
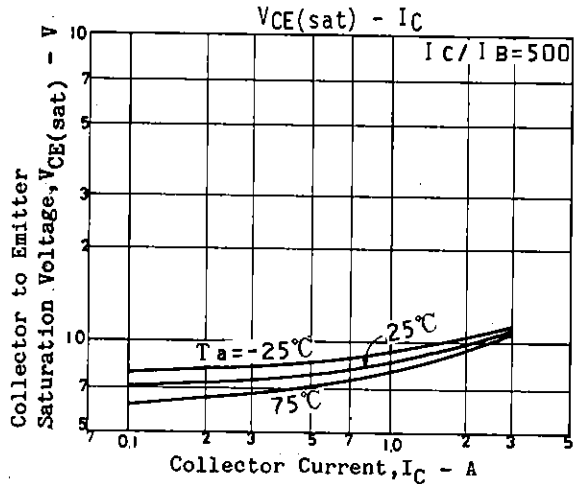
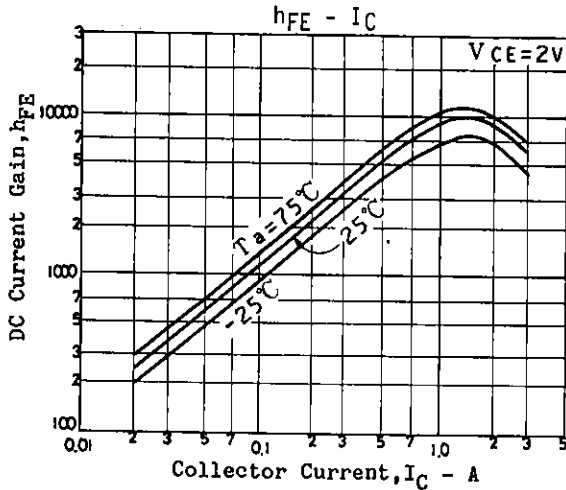
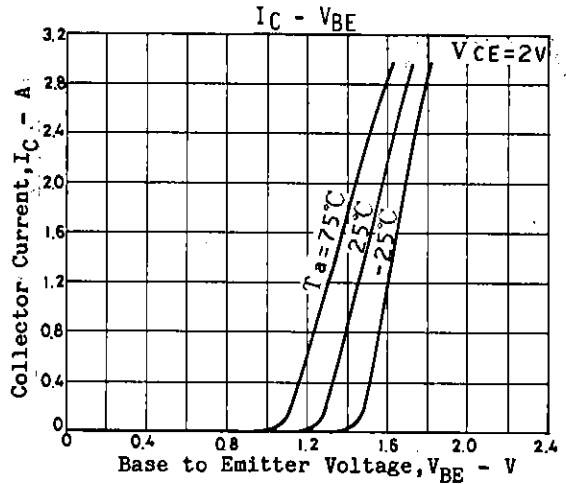
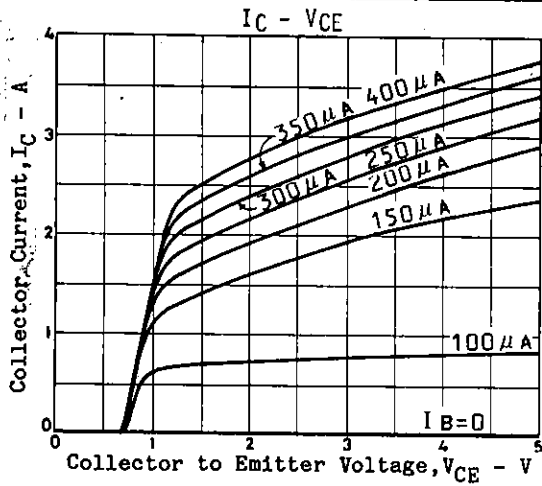
Package Dimensions 2044B (unit:mm)



- 1: Base
- 2: Collector
- 3: Emitter
- 4: Collector

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