

2SC4710

2100V/10mA High-Voltage Amplifier, High-Voltage Switching Applications

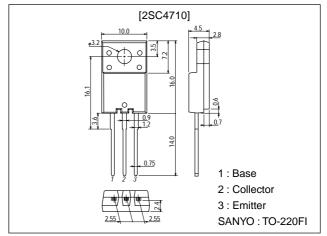
Features

- · High breakdown voltage (V_{CEO} min=2100V).
- · Small Cob (typical Cob=1.3pF).
- · Wide ASO.
- · High reliability (Adoption of HVP process).
- · Full isolation package.

Package Dimensions

unit:mm

2079B



Specifications

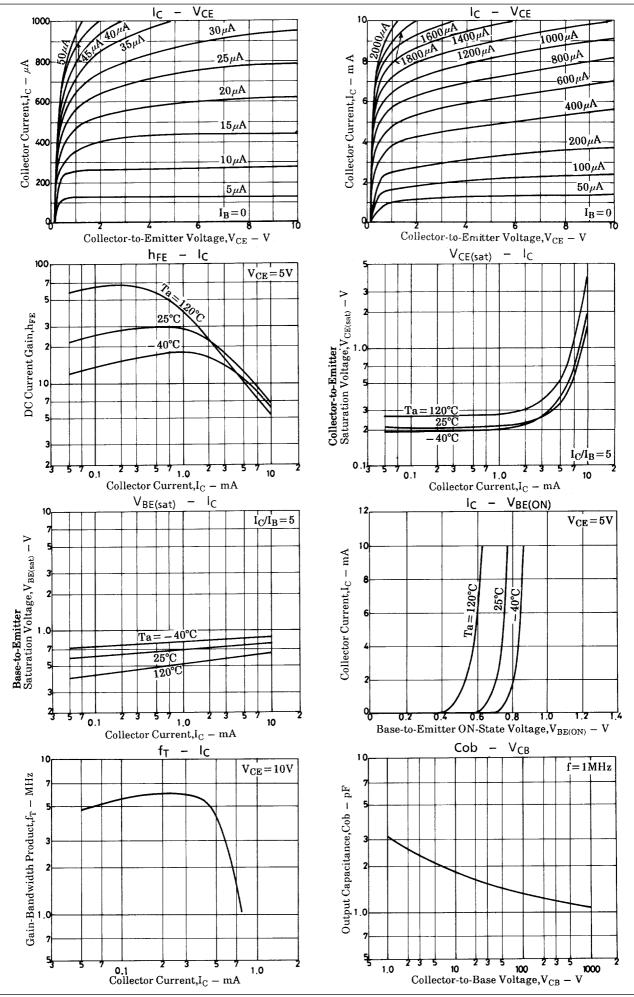
Absolute Maximum Ratings at Ta = 25°C

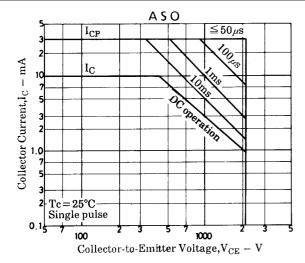
| Parameter | Symbol | Conditions | Ratings | Unit |
|------------------------------|------------------|------------|-------------|------|
| Collector-to-Base Voltage | V _{CBO} | | 2100 | V |
| Collector-to-Emitter Voltage | VCEO | | 2100 | V |
| Emitter-to-Base Voltage | VEBO | | 5 | V |
| Collector Current | I _C | | 10 | mA |
| Collector Current (Pulse) | I _{CP} | | 30 | mA |
| Collector Dissipation | PC | | 2 | W |
| Junction Temperature | Tj | | 150 | °C |
| Storage Temperature | Tstg | | -55 to +150 | °C |

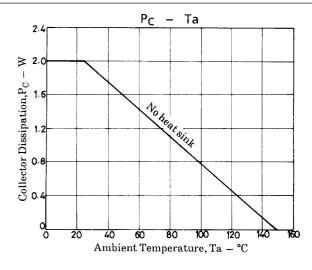
Electrical Characteristics at Ta = 25°C

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|-----------------------|---|---------|-----|-----|-------|
| | Symbol | | min | typ | max | Offic |
| Collector Cutoff Current | ICBO | V _{CB} =2100V, I _E =0 | | | 1 | μA |
| Emitter Cutoff Current | I _{EBO} | V _{EB} =4V, I _C =0 | | | 1 | μA |
| DC Current Gain | hFE | V _{CE} =5V, I _C =500μA | 10 | | 60 | |
| Gain-Bandwidth Product | fT | V _{CE} =10V, I _C =500μA | | 6 | | MHz |
| Collector-to-Emitter Saturation Voltage | VCE(sat) | I _C =1mA, I _B =200μA | | | 5 | V |
| Base-to-Emitter Saturation Voltage | V _{BE(sat)} | I _C =1mA, I _B =200μA | | | 2 | V |
| Collector-to-Base Breakdown Voltage | V _(BR) CBO | I _C =10μA, I _E =0 | 2100 | | | V |
| Collector-to-Emitter Breakdown Voltage | V(BR)CEO | I _C =100μA, R _{BE} =∞ | 2100 | | | V |
| Emitter-to-Base Breakdown Voltage | V(BR)EBO | I _E =10μA, I _C =0 | 5 | | | V |
| Output Capacitance | Cob | V _{CB} =100V, f=1MHz | | 1.3 | | pF |

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