

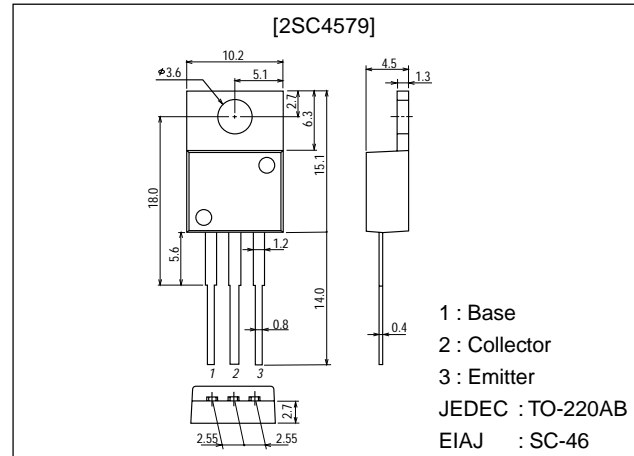
**2SC4579****900V/20mA Switching Applications****Features**

- High breakdown voltage.
- Small Cob.
- Wide ASO.
- High reliability (Adoption of HVP process).

Package Dimensions

unit:mm

2010C

**Specifications****Absolute Maximum Ratings at Ta = 25°C**

| Parameter | Symbol | Conditions | Ratings | Unit |
|------------------------------|-----------|------------|-------------|------|
| Collector-to-Base Voltage | V_{CB0} | | 2000 | V |
| Collector-to-Emitter Voltage | V_{CE0} | | 900 | V |
| Emitter-to-Base Voltage | V_{EBO} | | 5 | V |
| Collector Current | I_C | | 20 | mA |
| Collector Current (Pulse) | I_{CP} | | 60 | mA |
| Collector Dissipation | P_C | | 1.75 | W |
| Junction Temperature | T_J | | 150 | °C |
| Storage Temperature | T_{stg} | | -55 to +150 | °C |

Electrical Characteristics at Ta = 25°C

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|---------------|-----------------------|---------|-----|-----|---------|
| | | | min | typ | max | |
| Collector Cutoff Current | I_{CBO} | $V_{CB}=900V, I_E=0$ | | | 1 | μA |
| Emitter Cutoff Current | I_{EBO} | $V_{EB}=4V, I_C=0$ | | | 1 | μA |
| DC Current Gain | h_{FE} | $V_{CE}=5V, I_C=1mA$ | 20 | 50 | 120 | |
| Gain-Bandwidth Product | f_T | $V_{CE}=10V, I_C=1mA$ | | 6 | | MHz |
| Output Capacitance | Cob | $V_{CB}=100V, f=1MHz$ | | 1.6 | | pF |
| Collector-to-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=2mA, I_B=0.4mA$ | | | 5 | V |
| Base-to-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C=2mA, I_B=0.4mA$ | | | 2 | V |

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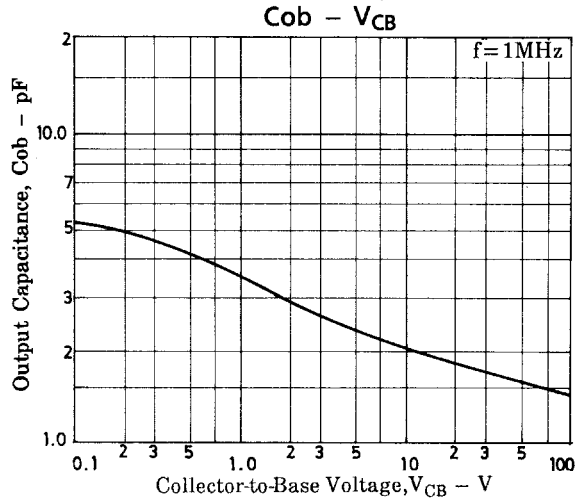
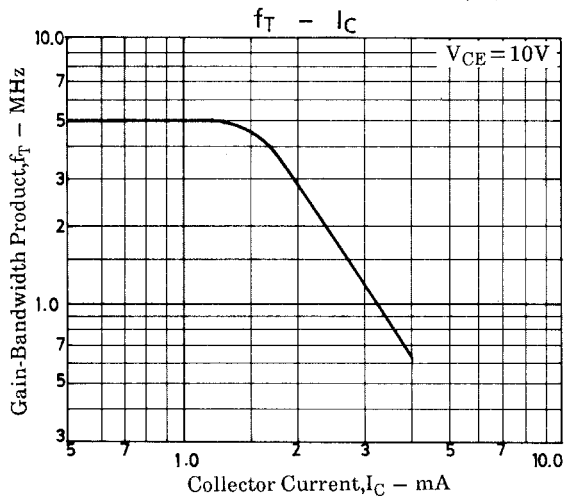
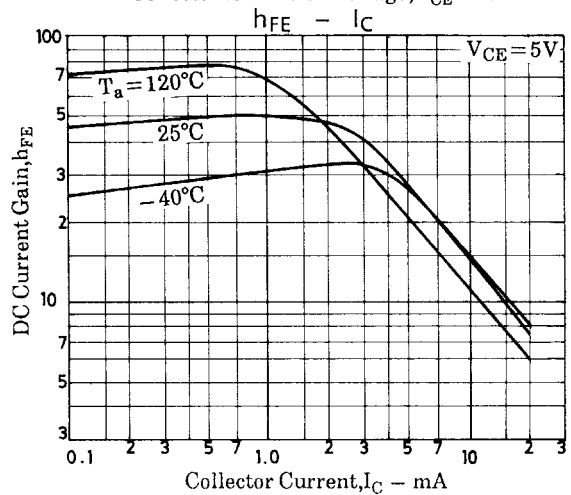
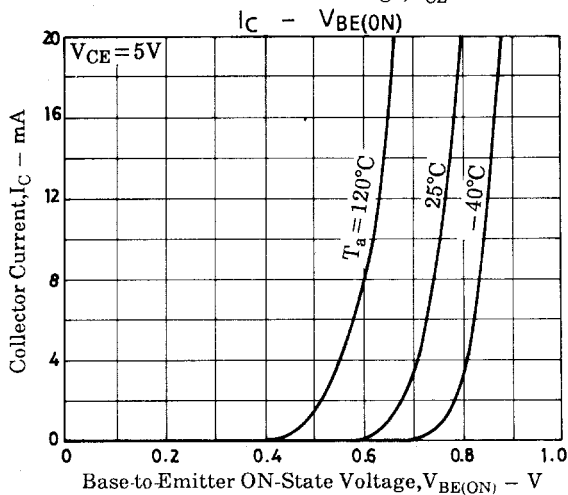
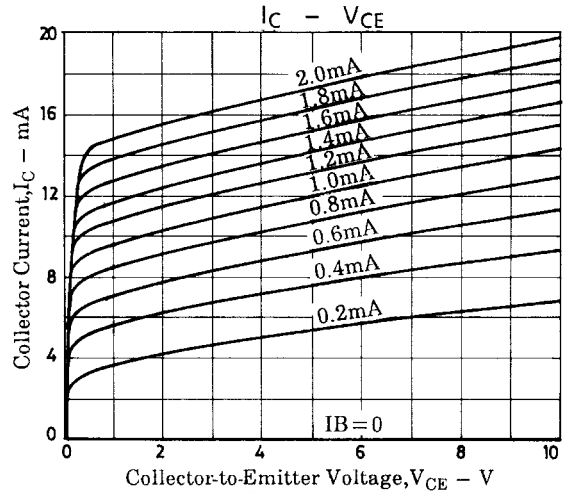
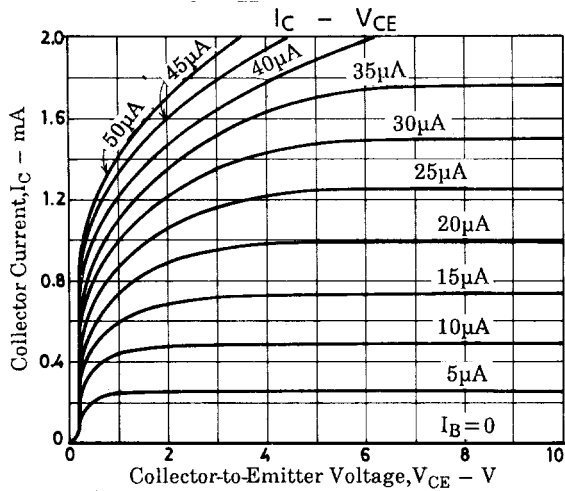
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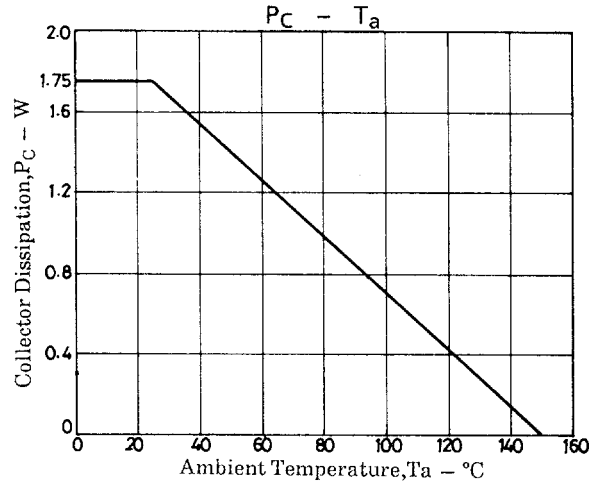
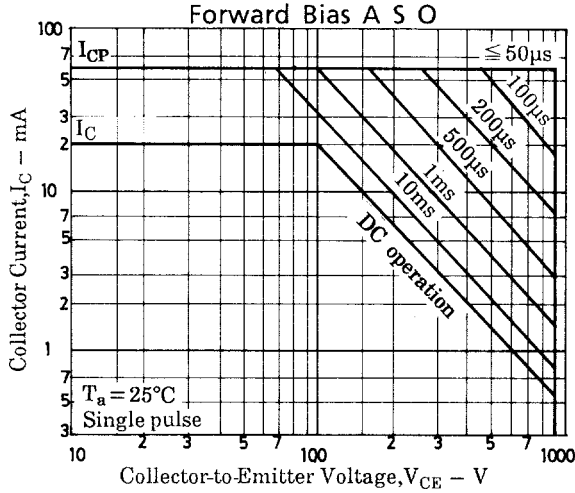
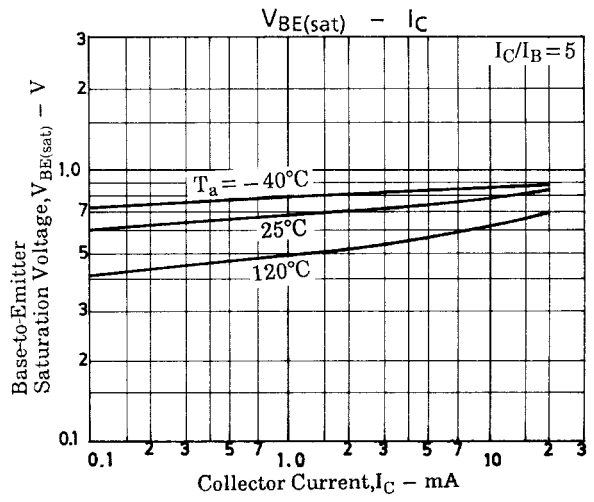
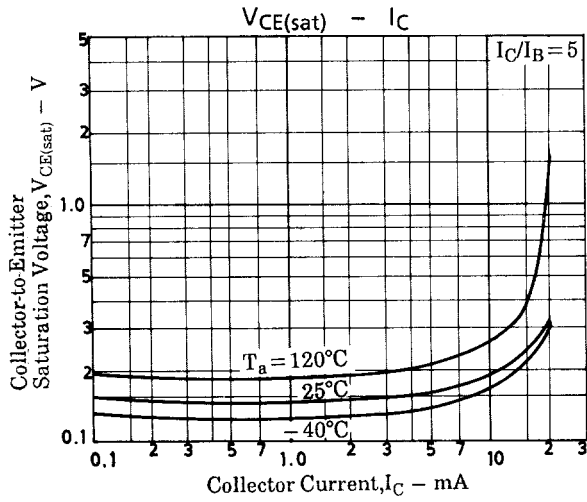
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2SC4579

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|--|---------------|--------------------------|---------|-----|-----|------|
| | | | min | typ | max | |
| Collector-to-Base Breakdown Voltage | $V_{(BR)CBO}$ | $I_C=1mA, I_E=0$ | 2000 | | | V |
| Collector-to-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=1mA, R_{BE}=\infty$ | 900 | | | V |
| Emitter-to-Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E=1mA, I_C=0$ | 5 | | | V |





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