



2SC4632LS

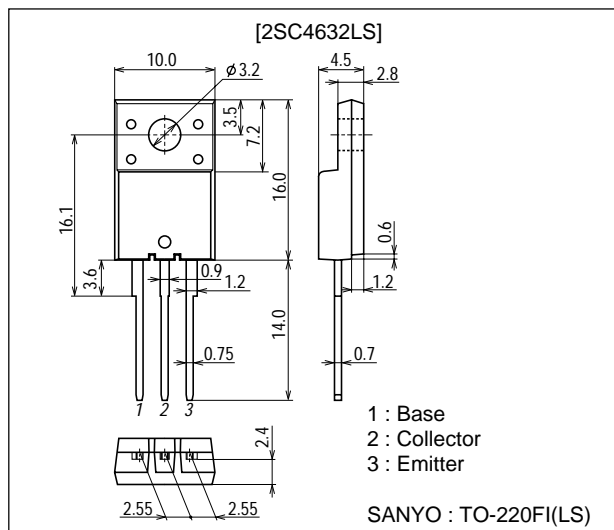
1200V / 10mA High-Voltage Amplifier, High-Voltage Switching Applications

Features

- High breakdown voltage($V_{CEO\ min}=1200V$).
- Small Cob(typical Cob=1.6pF).
- Full-isolation package.
- High reliability(Adoption of HVP process).

Package Dimensions

unit : mm
2079D



Specifications

Absolute Maximum Ratings at $T_a=25^\circ C$

| Parameter | Symbol | Conditions | Ratings | Unit |
|------------------------------|-----------|------------|-------------|------------|
| Collector-to-Base Voltage | V_{CBO} | | 1500 | V |
| Collector-to-Emitter Voltage | V_{CEO} | | 1200 | V |
| Emitter-to-Base Voltage | V_{EBO} | | 5 | V |
| Collector Current | I_C | | 10 | mA |
| Collector Current (Pulse) | I_{CP} | | 30 | mA |
| Collector Dissipation | P_C | | 2 | W |
| Junction Temperature | T_J | | 150 | $^\circ C$ |
| Storage Temperature | T_{stg} | | -55 to +150 | $^\circ C$ |

Electrical Characteristics at $T_a=25^\circ C$

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|--------------------------|-----------|-------------------------|---------|-----|-----|---------|
| | | | min | typ | max | |
| Collector Cutoff Current | I_{CBO} | $V_{CB}=1200V, I_E=0$ | | | 1 | μA |
| Emitter Cutoff Current | I_{EBO} | $V_{EB}=4V, I_C=0$ | | | 1 | μA |
| DC Current Gain | h_{FE} | $V_{CE}=5V, I_C=0.5mA$ | 10 | | 60 | |
| Gain-Bandwidth Product | f_T | $V_{CE}=10V, I_C=0.5mA$ | | 6 | | MHz |

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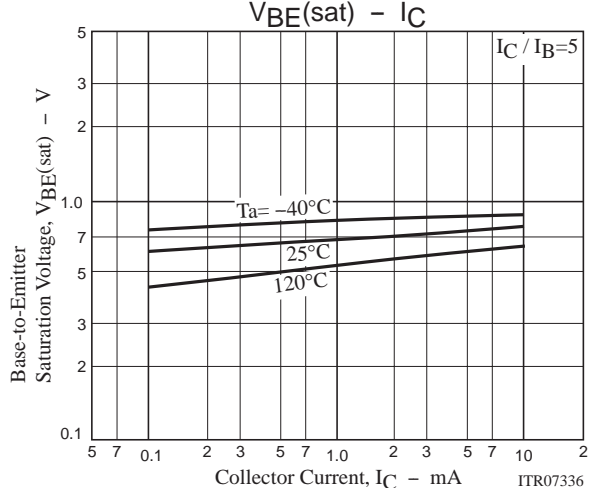
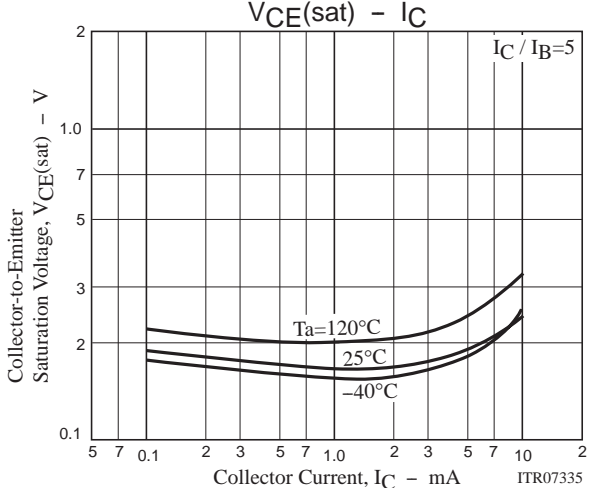
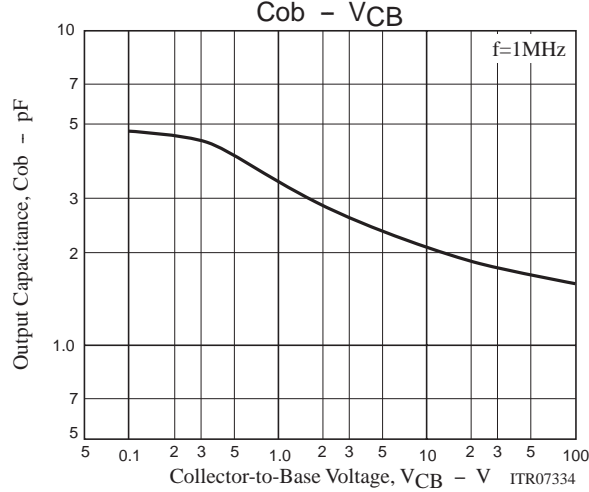
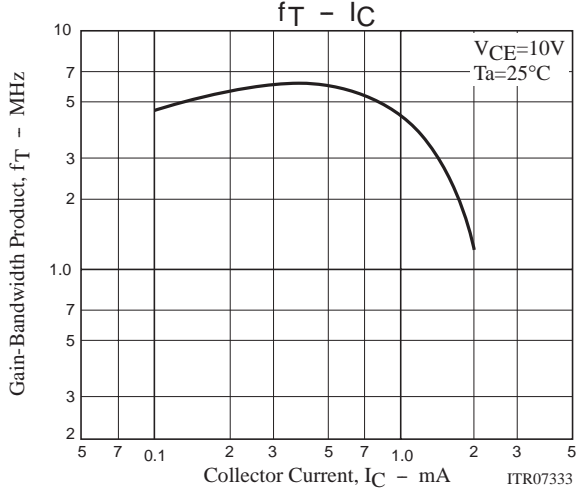
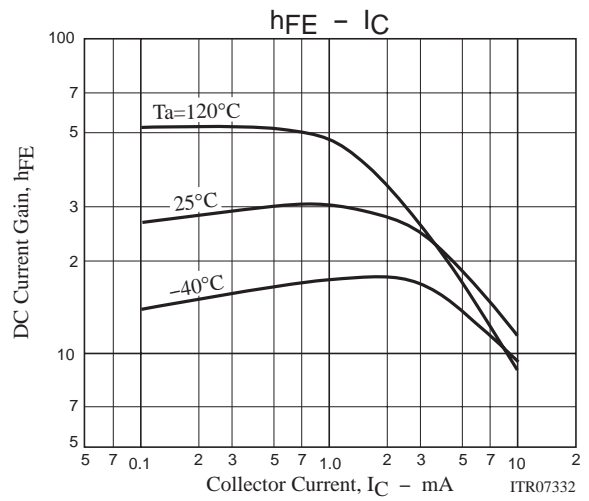
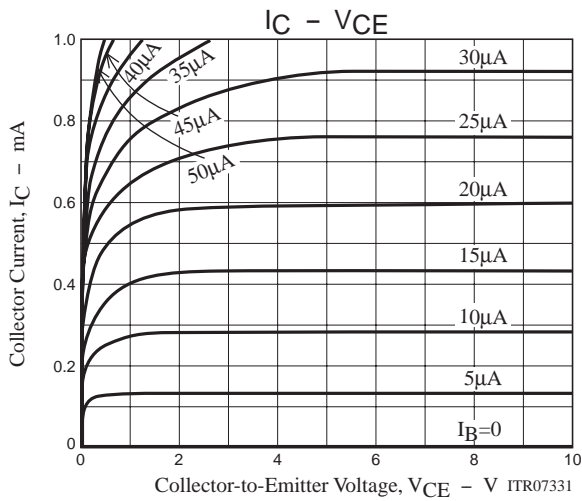
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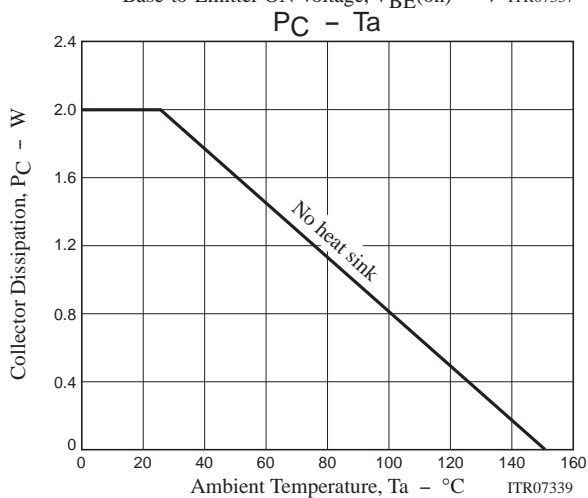
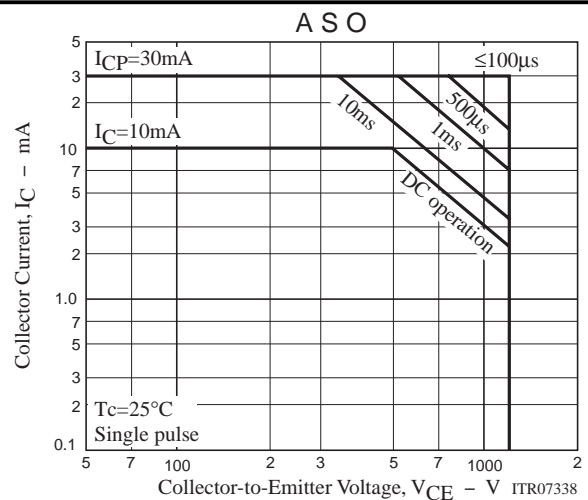
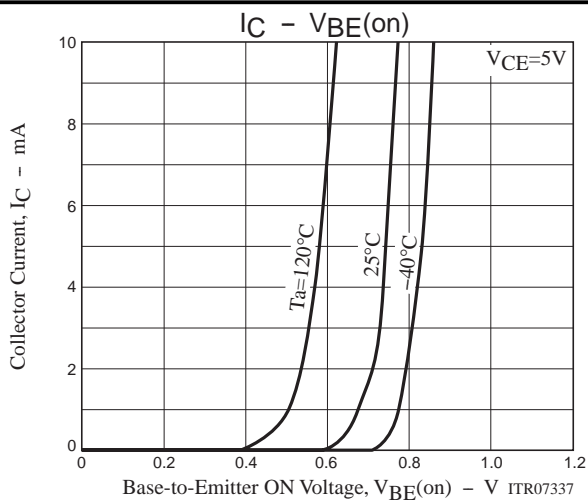
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| Parameter | Symbol | Conditions | Ratings | | | Unit |
|-----------------------------------------|---------------|--------------------------|---------|-----|------|---------------|
| | | | min | typ | max | |
| Collector-to-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=1mA, I_B=0.2mA$ | | | 5 | V |
| Base-to-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C=1mA, I_B=0.2mA$ | | | 2 | V |
| Collector-to-Base Breakdown Voltage | $V_{(BR)CBO}$ | $I_C=100\mu A, I_E=0$ | 1500 | | | V |
| Collector-to-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=1mA, R_{BE}=\infty$ | 1200 | | | V |
| Emitter-to-Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E=100\mu A, I_C=0$ | 5 | | | V |
| Output Capacitance | C_{ob} | $V_{CB}=100V, f=1MHz$ | | 1.6 | | pF |
| Thermal Resistance | R_{thj-c} | Junction - case | | | 12.5 | $^{\circ}C/W$ |



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