Continued from preceding page.

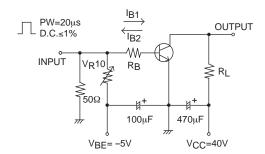
| Parameter | Symbol | Conditions | Ratings | Unit |
|-----------------------------|--------|---|-------------|------|
| Base Current I _B | | | 500 | mA |
| Collector Dissipation | PC | When mounted on ceramic substrate (250mm ² x0.8mm) | 1.3 | W |
| Collector Dissipation | | Tc=25°C | 3.5 | W |
| Junction Temperature | Tj | | 150 | °C |
| Storage Temperature | Tstg | | -55 to +150 | °C |

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Electrical Characteristics at Ta=25°C

| Parameter | Cymphol | Conditions | Ratings | | | 11-4 | |
|---|------------------------|---|---------|-----|-----|------|--|
| Parameter | Symbol Conditions | | min | typ | max | Unit | |
| Collector Cutoff Current | ICBO | V _{CB} =70V, I _E =0A | | | 1 | μΑ | |
| Emitter Cutoff Current | IEBO | V _{EB} =4V, I _C =0A | | | 1 | μΑ | |
| DC Current Gain | hFE | V _{CE} =5V, I _C =100mA | 300 | | 600 | | |
| Gain-Bandwidth Product | fŢ | V _{CE} =10V, I _C =500mA | | 350 | | MHz | |
| Output Capacitance | Cob | V _{CB} =10V, f=1MHz | | 14 | | pF | |
| Callegtor to Emitter Saturation Voltage | V _{CE} (sat)1 | I _C =1A, I _B =50mA | | 100 | 150 | mV | |
| Collector-to-Emitter Saturation Voltage | V _{CE} (sat)2 | I _C =1A, I _B =100mA | | 90 | 135 | mV | |
| Base-to-Emitter Saturation Voltage | VBE(sat) | IC=1A, IB=100mA | | 0.9 | 1.2 | V | |
| Collector-to-Base Breakdown Voltage | V(BR)CBO | I _C =10μA, I _E =0A | 120 | | | V | |
| Collector-to-Emitter Breakdown Voltage | V(BR)CES | I _C =100μA, R _{BE} =0Ω | 120 | | | V | |
| ollector-to-Efflitter Breakdown voltage | V(BR)CEO | IC=1mA, RBE=∞ | 80 | | | V | |
| Emitter-to-Base Breakdown Voltage | V(BR)EBO | I _E =10μA, I _C =0A | 6.5 | | | V | |
| Turn-ON Time | ton | | | 40 | | ns | |
| Storage Time | t _{stg} | See specified Test Circuit. | | 920 | | ns | |
| Fall Time | tf | | | 32 | | ns | |

Switching Time Test Circuit

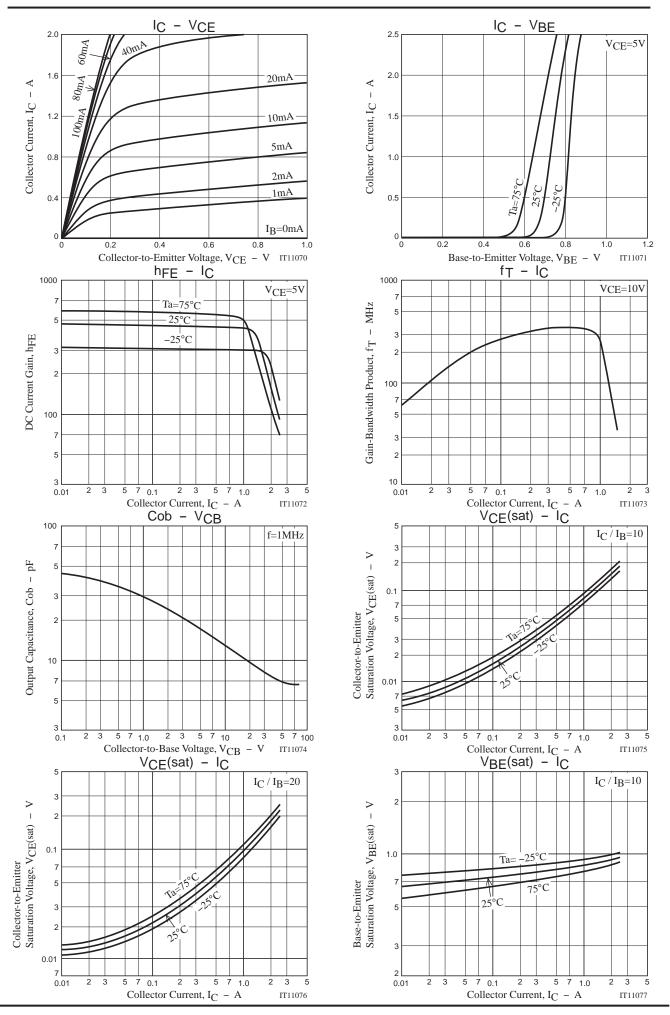


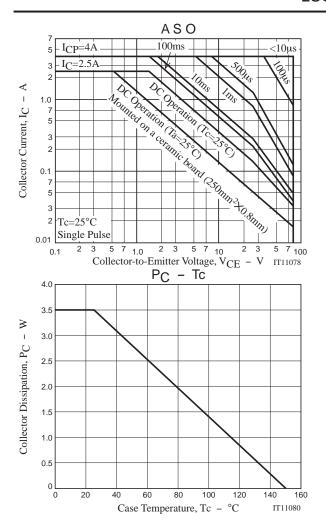
 $I_{C}=10I_{B1}=-10I_{B2}=0.5A$

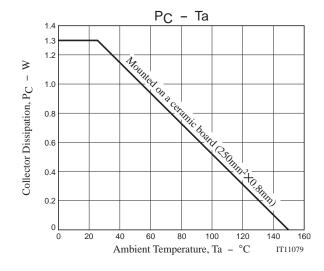
Ordering Information

| 3 | | | | |
|--------------|---------|----------------|---------|--|
| Device | Package | Shipping | memo | |
| 2SC6095-TD-E | PCP | 1,000pcs./reel | Pb Free | |

No. A0411-2/7



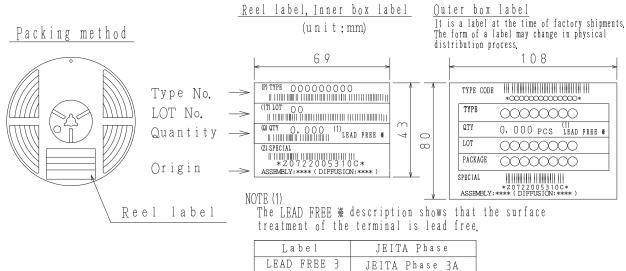




Embossed Taping Specification 2SC6095-TD-E

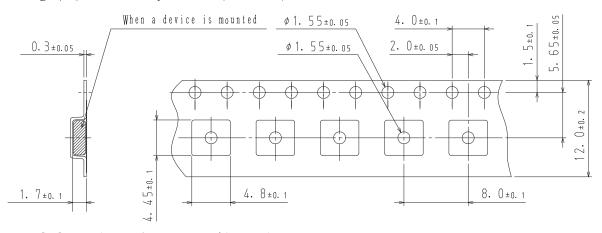
1. Packing Format

| Package Name | Carrier Tape | Maximum Number of devices contained (pcs) | | | Packing format | | |
|--------------|--------------|--|-----------|-----------|--------------------------|--------------------------|--|
| | Туре | Reel | Inner box | Outer box | Inner BOX (C-1) | Outer BOX (A-7) | |
| PCP | PCP | 1, 000 | 4,000 | 24, 000 | 4 reels contained | 6 inner boxes contained | |
| | | | | | Dimensions:mm (external) | Dimensions:mm (external) | |
| | | | | | 183×72×185 | 440×195×210 | |



2. Taping configuration

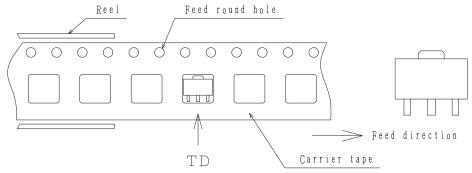
2-1. Carrier tape size (unit:mm)



LEAD FREE 4

JEITA Phase 3

2-2. Device placement direction



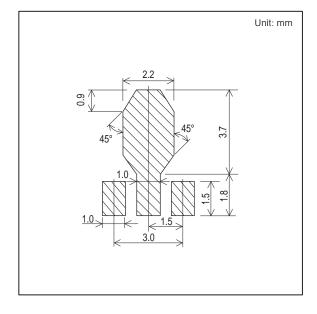
Those with pin 1 index on the feed hole side·····TD

Outline Drawing

2SC6095-TD-E

Mass (g) Unit 0.058 mm 4. 5±0. 1 1. 6±0. 2 _ 1.5±0.1_ 2. 5±0. 1 4. 0±0. 2 1. 0±0. 2 0. 4+0. 08 0. 4±0. 03 0. 5^{+0. 05} 1. 5±0. 2 3. O±0. 2 0. 75 0.10 *1:Lot indication

Land Pattern Example



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