Unit: mm

TOSHIBA

特力材料886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

2SC5339

HORIZONTAL DEFLECTION OUTPUT FOR MEDIUM RESOLUTION DISPLAY, COLOR TV

HIGH SPEED SWITCHING APPLICATIONS

High Voltage $V_{CBO} = 1500 \text{ V}$: VCE (sat) = 5 V (Max.) Low Saturation Voltage : $t_f = 0.2 \mu s (Typ.)$ High Speed

Bult-in Damper Type

• Collector Metal (Fin) is Fully Covered with Mold Resin.

MAXIMUM RATINGS (Tc = 25°C)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|---|-------|-------------------|---------|--------|
| Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage | | V _{CBO} | 1500 | V |
| | | V _{CEO} | 600 | -0 A - |
| | | V _{EBO} | 5 | |
| Collector Current | DC | Ic | 7,00 | CA |
| Collector Current | Pulse | I _{CP} | 14 | |
| Base Current | | √√ I _B | 3.5 | Α |
| Collector Power Dissipa | ation | P _C | 50 | W |
| Junction Temperature | CON | T_{j} | 150 | °C |
| Storage Temperature F | Range | T _{stg} | -55~150 | °C |

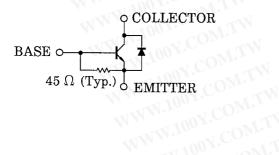
0.0 ± 0.5 1.2 4.0 2.3MAX 0.95MAX 1. Base 2. Collector 3. Emitter

2-16E3A

Weight: 5.5 g (typ.)

JEDEC JEITA TOSHIBA

EQUIVALENT CIRCUIT



ELECTRICAL CHARACTERISTICS (Tc = 25°C)

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| CHARACTERISTIC | | SYMBOL | TEST CONDITION | MIN | TYP. | MAX | UNIT |
|--------------------------------------|--------------|-----------------------|---|-------------|------|----------|------|
| Collector Cut-off Current | | I _{CBO} | V _{CB} = 1500 V, I _E = 0 | 107/ | 147 | 1 | mA |
| Emitter Cut-off Current | | I _{EBO} | V _{EB} = 5 V, I _C = 0 | 71 | TY | 250 | mA |
| Emitter-Base Breakdown Voltage | | V (BR) EBO | I _E = 400 mA, I _C = 0 | 5 | TIN | _ | V |
| DC Current Gain | | h _{FE (1)} | V _{CE} = 5 V, I _C = 1 A | 1.10 | TY | 30 | _ |
| | | h _{FE (2)} | V _{CE} = 5 V, I _C = 5 A | 4 | - 1 | 8 | |
| Collector-Emitter Saturation Voltage | | V _{CE} (sat) | I _C = 5 A, I _B = 1.25 A | . TO . T. C | DAT. | 5 | V |
| Base-Emitter Saturation Voltage | | V _{BE (sat)} | I _C = 5 A, I _B = 1.25 A | N.Too | 1.0 | 1.3 | V |
| Forward Voltage (Damper Diode) | | V _F | I _F = 5 A | 1100 | 1.35 | 1.8 | V |
| Transition Frequency | | f _T | V _{CE} = 10 V, I _C = 0.1 A | 100 | 2.4 | V.F. | MHz |
| Collector Output Capacitance | | Cob | V _{CB} = 10 V, I _E = 0, f = 1 MHz | 100 to | 82 | VET | pF |
| Switching Time | Storage Time | t _{stg} | I _{CP} = 5 A, I _{B1} (end) = 1.1 A f _H = 31.5 kHz | 10 | 4 | 6 | μs |
| | Fall Time | tf | | 11/1 | 0.2 | 0.5 | |

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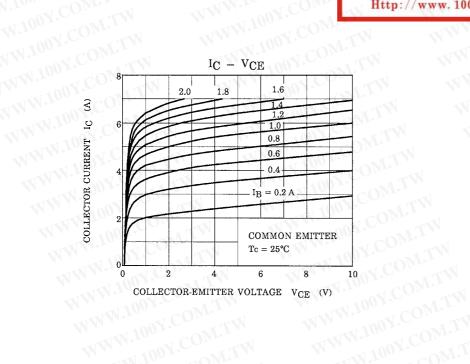
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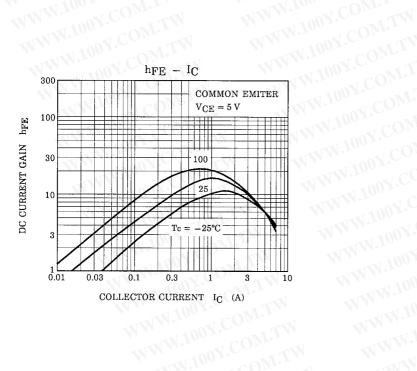
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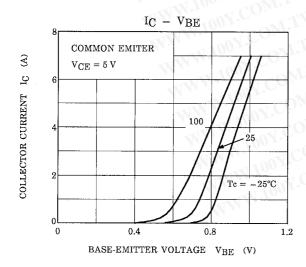
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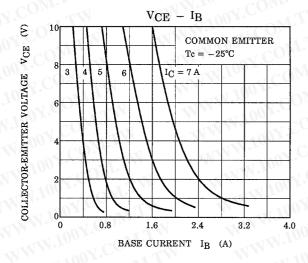


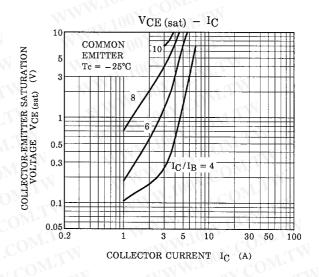


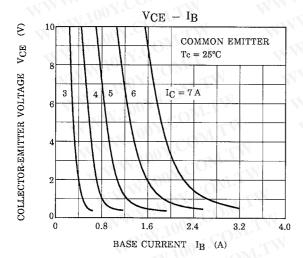
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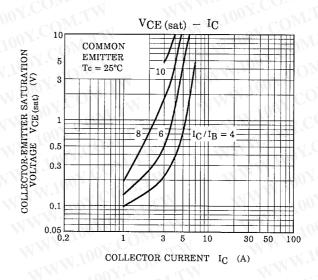
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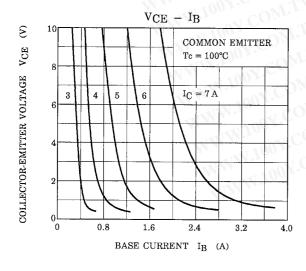
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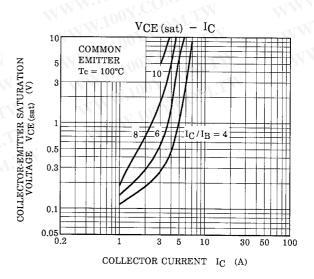




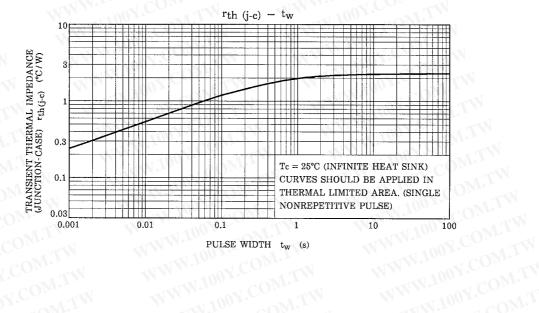


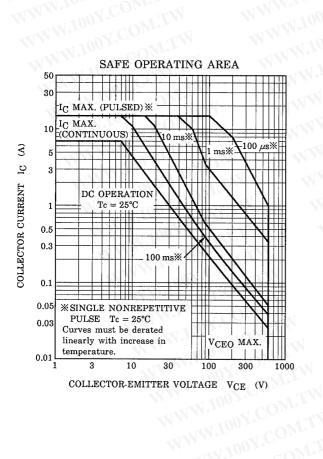


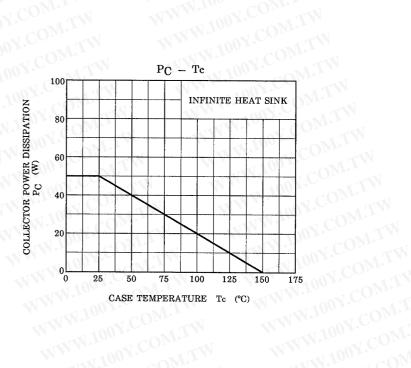




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