

2SB1316

- 1) Darlington connection for high DC current gain.
- 2) Built-in resistor between base and emitter.
- 3) Built-in damper diode.
- 4) Complements the 2SD2195 / 2SD1980.

*1 Single pulse Pw=100ms
*2 When mounted on a 40 x 40 x 0.7 mm ceramic board.

* Denotes herb

16

Top View Dimensions:

- Pin 1 to Pin 2: 2.3
- Pin 2 to Pin 3: 2.3
- Pin 3 to Pin 4: 2.3
- Pin 4 to Pin 5: 2.3
- Pin 5 to Pin 6: 2.3
- Pin 6 to Pin 7: 2.3
- Pin 7 to Pin 8: 2.3
- Pin 8 to Pin 9: 2.3
- Pin 9 to Pin 10: 2.3
- Pin 10 to Pin 11: 2.3
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- Pin 193 to Pin 194: 2.3
- Pin 194 to Pin 195: 2.3

$R_1 \approx 3.5\text{k}\Omega$ B : Base
 $R_2 \approx 300\Omega$ C : Collector
 E : Emitter

* Measured using pulse current.

Transistors

●Electrical characteristics curve

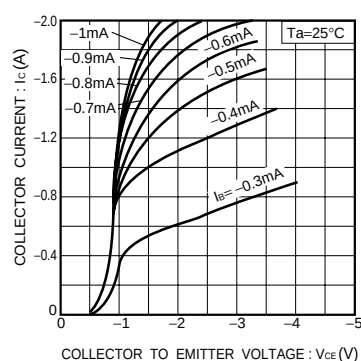


Fig.1 Grounded emitter output characteristics

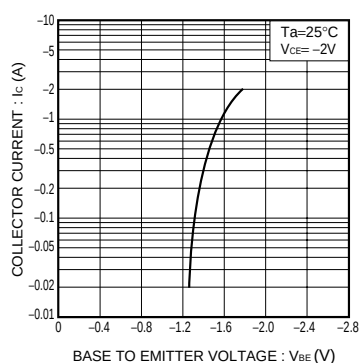


Fig.2 Grounded emitter propagation characteristics

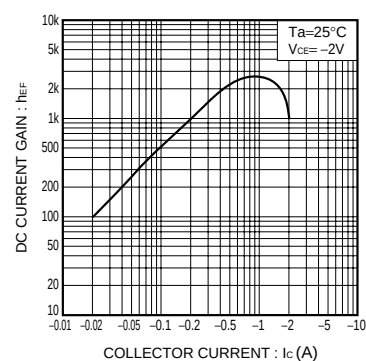


Fig.3 DC current gain vs. collector current

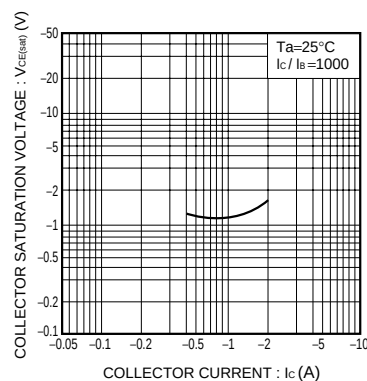


Fig.4 Collector-emitter saturation voltage vs. collector current

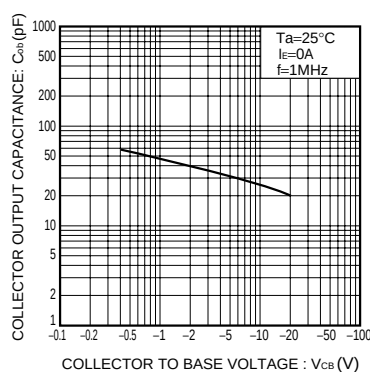


Fig.5 Collector output capacitance vs. collector-base voltage

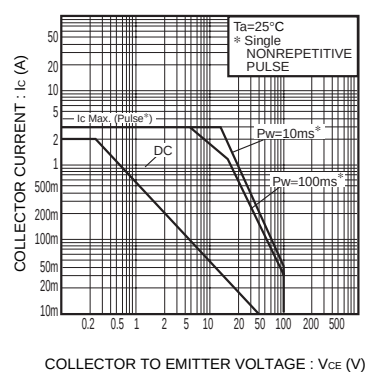


Fig.6 Safe Operating area (2SB1580)

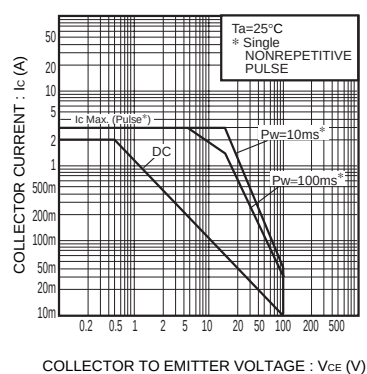


Fig.7 Safe Operating area (2SB1316)

Notes

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