

**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.

Storage temperature	1stg	-5
*1 Single pulse Pw=100ms		
*2 When mounted on a 40 x 40 x 0.7 mm ceramic board		

\* Denotes basic

[illegible]

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

\* Measured using pulse current.

## Transistors

## ●Electrical characteristics curve

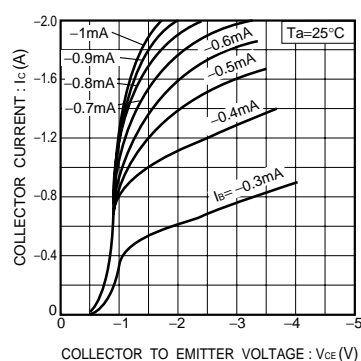


Fig.1 Grounded emitter output characteristics

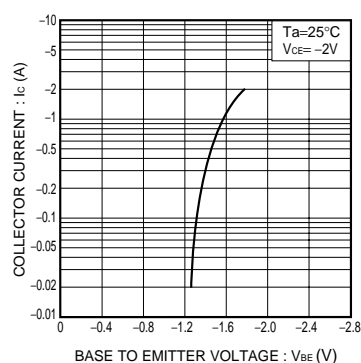


Fig.2 Grounded emitter propagation characteristics

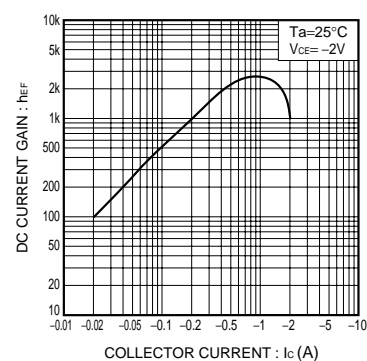


Fig.3 DC current gain vs. collector current

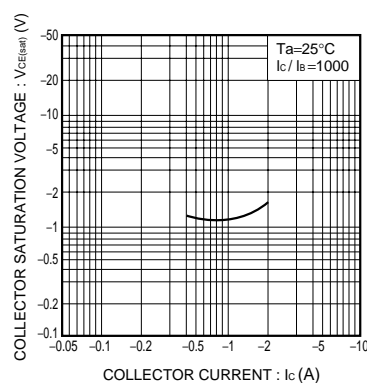


Fig.4 Collector-emitter saturation voltage vs. collector current

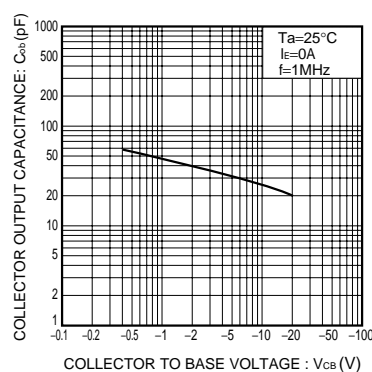


Fig.5 Collector output capacitance vs. collector-base voltage

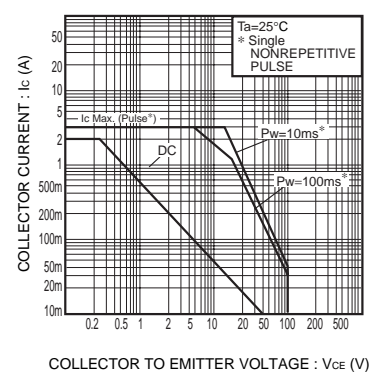


Fig.6 Safe Operating area (2SB1580)

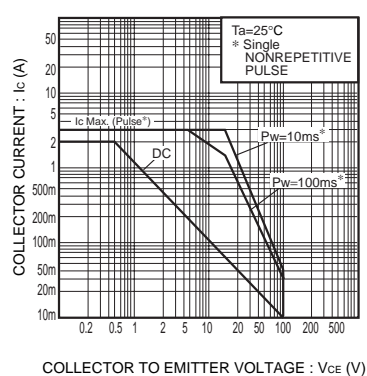


Fig.7 Safe Operating area (2SB1316)

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