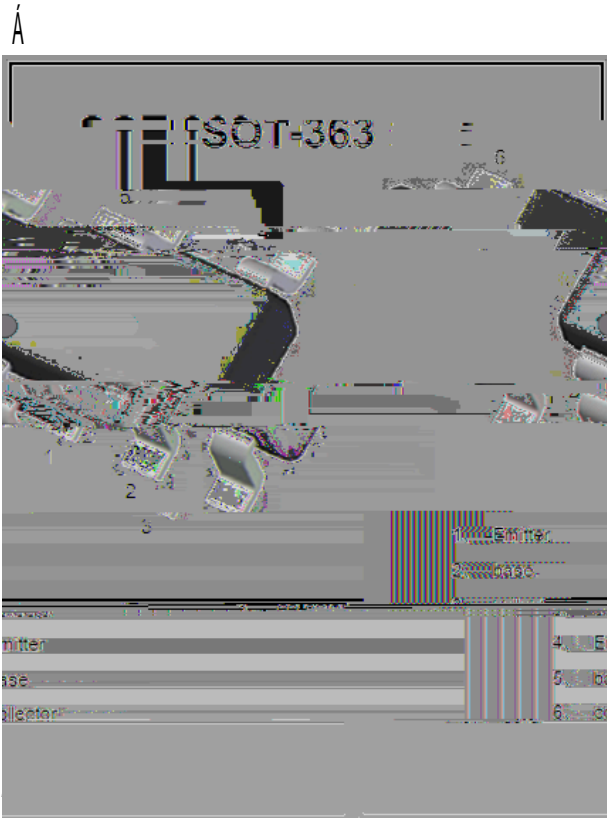




# Dual NPN+PNP Small Signal Transistor



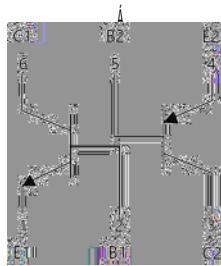
## Features

- V<sub>CE</sub> = 5 V, I<sub>C</sub> = 10 mA, f<sub>T</sub> = 100 MHz
- V<sub>CE</sub> = 5 V, I<sub>C</sub> = 10 mA, f<sub>T</sub> = 100 MHz
- V<sub>CE</sub> = 5 V, I<sub>C</sub> = 10 mA, f<sub>T</sub> = 100 MHz
- V<sub>CE</sub> = 5 V, I<sub>C</sub> = 10 mA, f<sub>T</sub> = 100 MHz
- V<sub>CE</sub> = 5 V, I<sub>C</sub> = 10 mA, f<sub>T</sub> = 100 MHz

## Application

• Amplifier

• Oscillator



## TR1 NPN Pin1 2 6 Maximum Ratings

Item	Symbol	Unit	Value
Collector-Emitter Voltage (V <sub>CE</sub> )	V <sub>CE</sub>	V	5
Collector-Base Voltage (V <sub>CB</sub> )	V <sub>CB</sub>	V	5
Emitter-Base Voltage (V <sub>EB</sub> )	V <sub>EB</sub>	V	5
Collector Current (I <sub>C</sub> )	I <sub>C</sub>	mA	10
Collector Current (I <sub>C</sub> )	I <sub>C</sub>	mA	10
Collector Current (I <sub>C</sub> )	I <sub>C</sub>	mA	10
Collector Current (I <sub>C</sub> )	I <sub>C</sub>	mA	10
Collector Current (I <sub>C</sub> )	I <sub>C</sub>	mA	10
Collector Current (I <sub>C</sub> )	I <sub>C</sub>	mA	10

Notes: 1. Pulse width limited by SOA. 2. SOA limited by SOA.

STMicroelectronics

**BC846BPNQ**

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TR1 NPN Pin1 2 6 Characteristics

Fig 2 - DC Current Gain

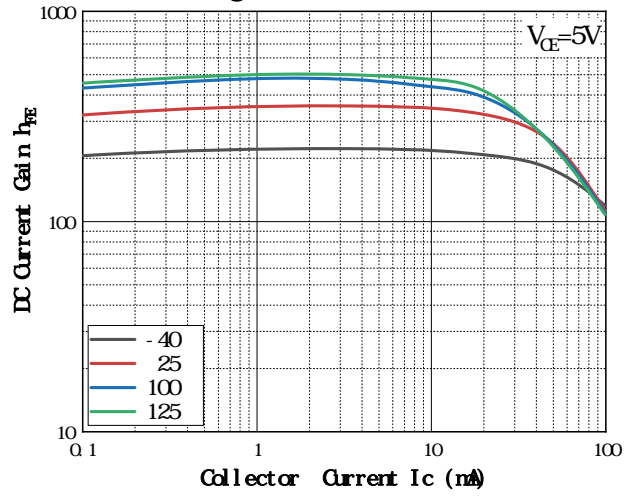
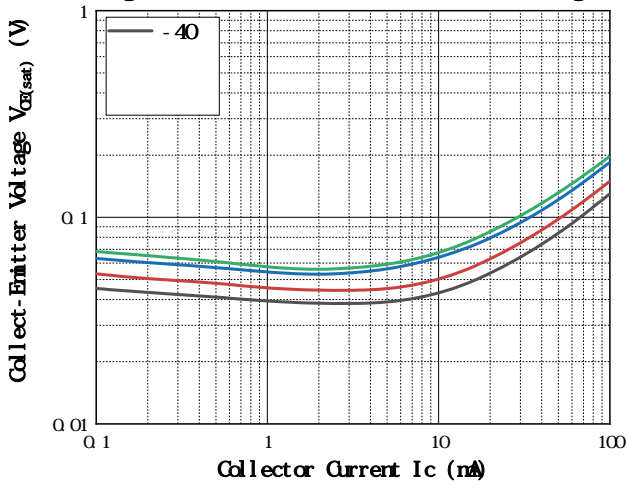


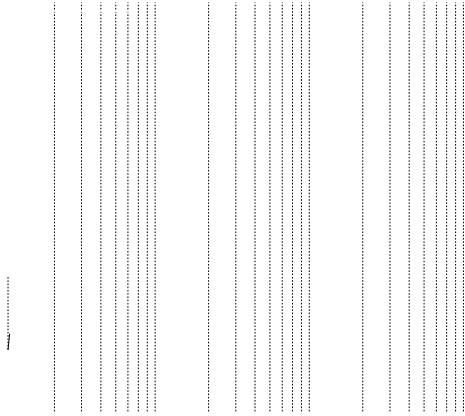
Fig 3 - Collect-Emittter Saturation Voltage





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## TR2 PNP Pin3 4 5 Characteristics



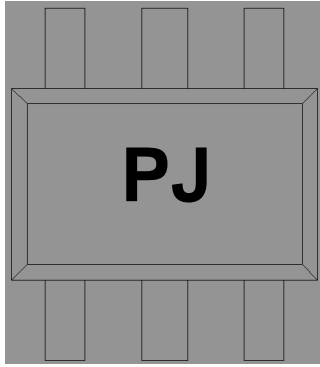
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Marking Information



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