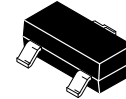


PNP Darlington Transistor

BCV26



SOT-23
CASE 318

Description

This device is designed for applications requiring extremely high current gain at collector currents to 800 mA. Sourced from Process 61.

ABSOLUTE MAXIMUM RATINGS

($T_A = 25^\circ\text{C}$ unless otherwise noted.) (Notes 1, 2, 3)

Symbol	Parameter	Value	Unit
V_{CEO}	Collector Emitter Voltage	30	V
V_{CBO}	Collector Base Voltage	40	V
V_{EBO}	Emitter Base Voltage	10	V
I_C	Collector Current Continuous	1.2	A
T_J, T_{STG}	Operating and Storage Junction Temperature Range	55 to +150	$^\circ\text{C}$

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

- These ratings are based on a maximum junction temperature of 150°C .
- These are steady state limits. **onsemi** should be consulted on applications involving pulsed or low duty cycle operations.
- All voltages (V) and currents (A) are negative polarity for PNP transistors.

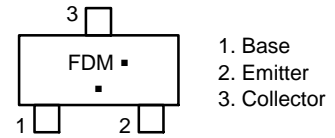
THERMAL CHARACTERISTICS

($T_A = 25^\circ\text{C}$ unless otherwise noted.) (Note 4)

Symbol	Parameter	Max	Unit
P_D	Total Device Dissipation	350	mW
	Derate Above 25°C	2.8	mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	357	$^\circ\text{C}/\text{W}$

- Device mounted on FR 4 PCB 40 mm x 40 mm x 1.5 mm.

MARKING DIAGRAM



FD = Specific Device Code
M = Date Code
▪ = Pb Free Package

(Note: Microdot may be in either location)

ORDERING INFORMATION

Device	Package	Shipping
BCV26	SOT 23 (Pb Free, Halide Free)	3,000 / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted.)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
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OFF CHARACTERISTICS

V _{(BR)CEO}	Collector Emitter Breakdown Voltage	I _C = 10 mA, I _B = 0	30			V
V _{(BR)CBO}	Collector Base Breakdown Voltage	I _C = 10 μA, I _E = 0	40			V
V _{(BR)EBO}	Emitter Base Breakdown Voltage	I _E = 100 nA, I _C = 0	10			V

71 refBT8 0 0 8 594 083 668 16209 Tom.DDC Of Gain Current 174 648.7943 2844 300725603 674 547.6871655 7395 590 210 1770 08139 426527666 7847



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TYPICAL CHARACTERISTICS

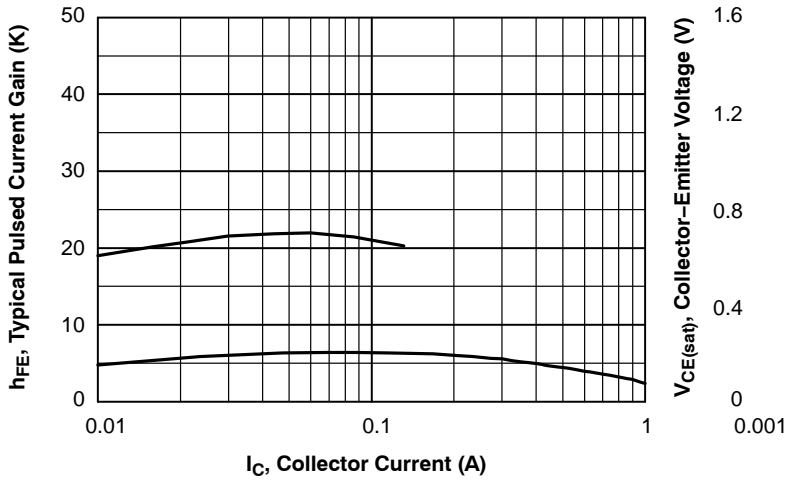


Figure 1. Typical Pulsed Current Gain vs. Collector Current

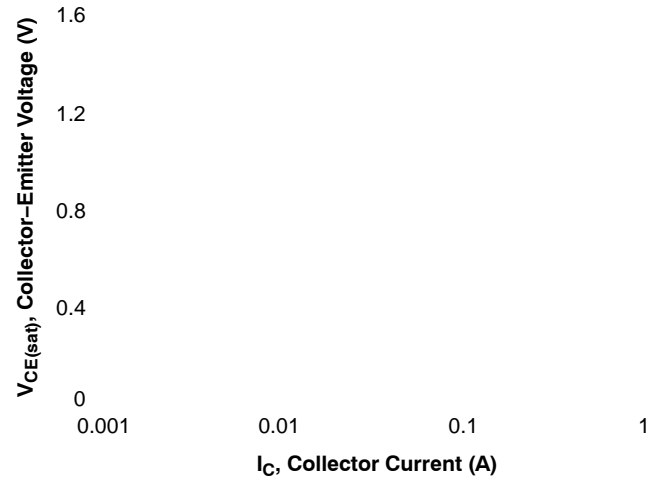


Figure 2. Collector-Emitter Saturation Voltage vs. Collector Current

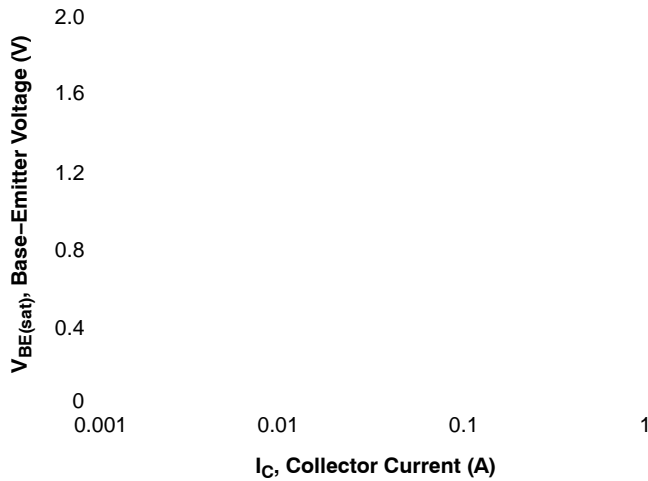


Figure 3. Base-Emitter Saturation Voltage vs. Collector Current

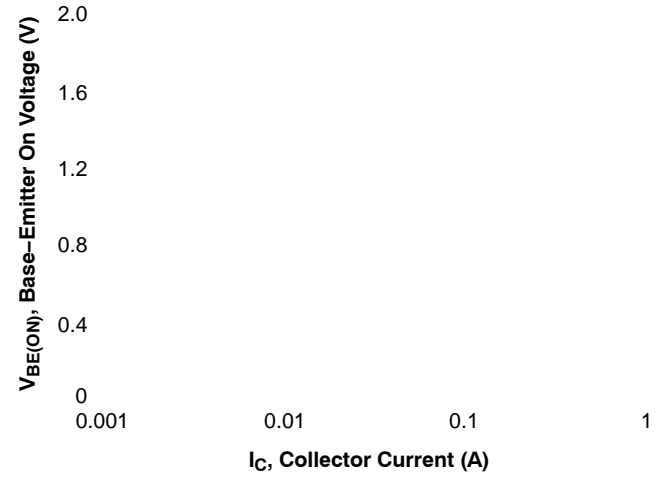


Figure 4. Base Emitter On Voltage vs. Collector Current

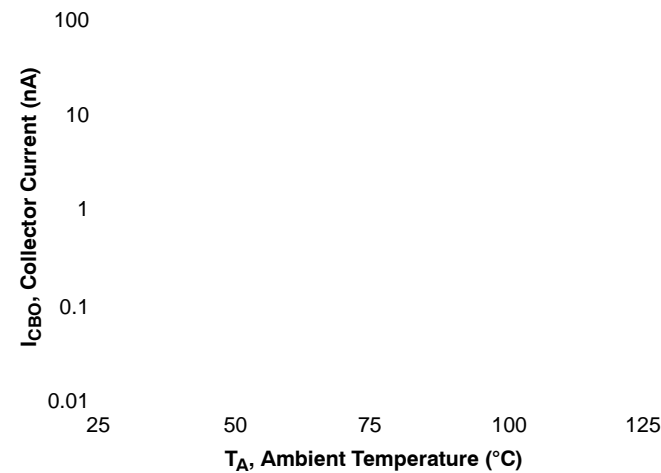


Figure 5. Collector Cut-Off Current vs. Ambient Temperature

Figure 6. Input and Output Capacitance vs. Reverse Bias Voltage

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TYPICAL CHARACTERISTICS (Continued)

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