

BC369



PNP General Purpose Amplifier

This device is designed for general purpose medium power amplifiers and switches requiring collector currents to 1.2 A. Sourced from Process 77.

Absolute Maximum Ratings*

TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{CEO}	Collector-Emitter Voltage	20	V
V _{CES}	Collector-Base Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5.0	V
I _C	Collector Current - Continuous	1.5	А
T _J , T _{stg}	Operating and Storage Junction Temperature Range	-55 to +150	°C

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

- These ratings are based on a maximum junction temperature of 150 degrees C.
 These are steady state limits. The factory 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 TA = 25°C unless otherwise noted

Symbol	Characteristic	Max	Units
		BC369	
P _D	Total Device Dissipation	625	mW
	Derate above 25°C	5.0	mW/°C
$R_{\theta JC}$	Thermal Resistance, Junction to Case	83.3	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	200	°C/W

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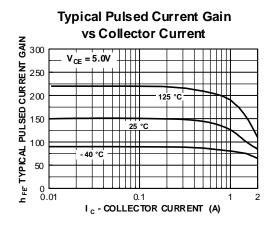
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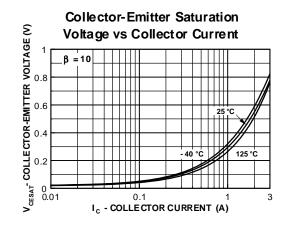
Symbol	Parameter	Test Conditions	Min	Max	Units
	RACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 10 \text{ mA}, I_{\rm B} = 0$	20		V
V _{(BR)CES}	Collector-Base Breakdown Voltage	$I_C = 100 \mu\text{A}, I_E = 0$	25		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	$I_E = 10 \mu\text{A}, I_C = 0$	5.0		V
I _{CBO}	Collector-Cutoff Current	$V_{CB} = 25 \text{ V}, I_{E} = 0$ $V_{CB} = 25 \text{ V}, I_{E} = 0, T_{A} = 150^{\circ}\text{C}$		10 1.0	μA mA
I _{EBO}	Emitter-Cutoff Current	$V_{EB} = 5.0 \text{ V}, I_{C} = 0$		10	μΑ
ON CHAR	RACTERISTICS DC Current Gain	$I_C = 5.0 \text{ mA}, V_{CE} = 10 \text{ V}$ $I_C = 0.5 \text{ A}, V_{CE} = 1.0 \text{ V}$	50 85 60	375	
		$1 \cdot 10 = 1.0 \text{ A. } \text{V}_{\text{CE}} = 1.0 \text{ V}$	I OU		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	$I_C = 1.0 \text{ A}, V_{CE} = 1.0 \text{ V}$ $I_C = 1.0 \text{ A}, I_B = 100 \text{ mA}$	60	0.5	V
V _{CE(sat)}	Collector-Emitter Saturation Voltage Base-Emitter On Voltage		60	0.5	V

f = 35 MHz

NOTE: All voltages (V) and currents (A) are negative polarity for PNP transistors.

Typical Characteristics

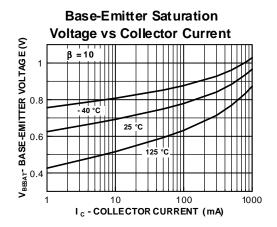


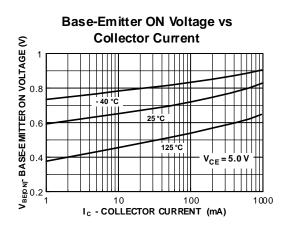


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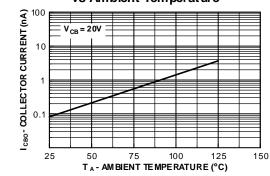
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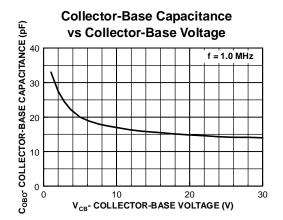
Typical Characteristics (continued)



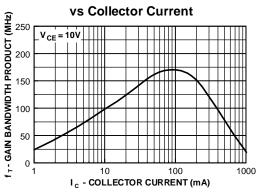




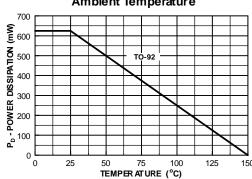




Gain Bandwidth Product







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