

BC327A PNP Epitaxial Silicon Transistor

Switching and Amplifier Applications

• Suitable for AF-Driver stages and low power output stages



1. Collector 2. Base 3. Emitter

Absolute Maximum Ratings * $T_a = 25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CES}	Collector-Emitter Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current (DC)	-800	mA
P _C	Collector Power Dissipation	625	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics $T_a = 25$ °C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0	-60			V
BV _{CES}	Collector-Emitter Breakdown Voltage	I _C = -100μA, V _{BE} =0	-60			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -100μA, I _C =0	-5			V
I _{CES}	Collector Cut-off Current	V _{CE} = -45V, V _{BE} =0			-100	nA
h _{FE1} h _{FE2}	DC Current Gain	V _{CE} = -1V, I _C = -100mA V _{CE} = -1V, I _C = -500mA	100 40		400	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -500mA, I _B = -50mA			-0.7	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -1V, I _C = -300mA			-1.2	V
f _T	Current Gain Bandwidth Product	V_{CE} = -5V, I_{C} = -10mA, f=20MHz		100		MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1MHz		12		pF

Typical Performance Characteristics

Figure 1. Static Characterstic

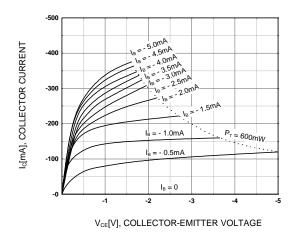


Figure 3. DC Current Gain

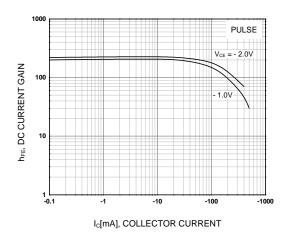


Figure 5. Base-Emitter On Voltage

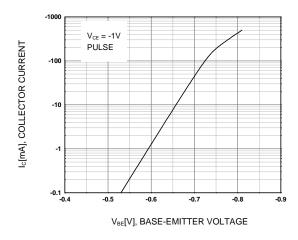


Figure 2. Static Characteristic

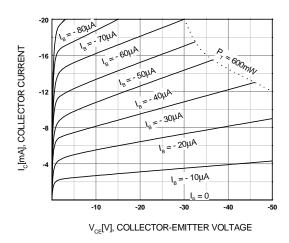


Figure 4. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

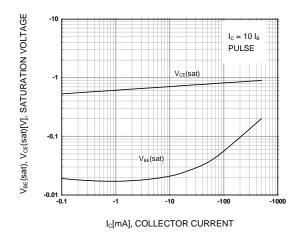
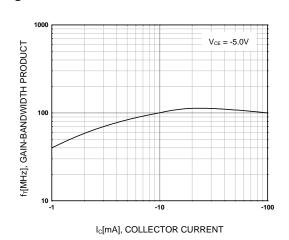


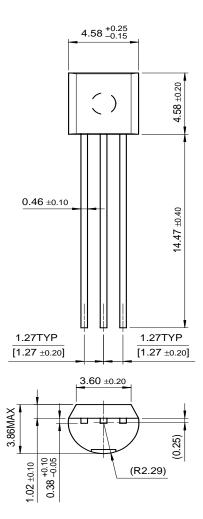
Figure 6. Gain Bandwidth Product

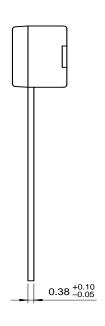


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Mechanical Dimensions

TO-92





Dimensions in Millimeters

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