

## BC327/328

## **Switching and Amplifier Applications**

- Suitable for AF-Driver stages and low power output stages
- Complement to BC337/BC338



### 1. Collector 2. Base 3. Emitter

## **PNP Epitaxial Silicon Transistor**

## **Absolute Maximum Ratings** T<sub>a</sub>=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>CES</sub>	Collector-Emitter Voltage		
	: BC327	-50	V
	: BC328	-30	V
V <sub>CEO</sub>	Collector-Emitter Voltage		
	: BC327	-45	V
	: BC328	-25	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
I <sub>C</sub>	Collector Current (DC)	-800	mA
P <sub>C</sub>	Collector Power Dissipation	625	mW
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C

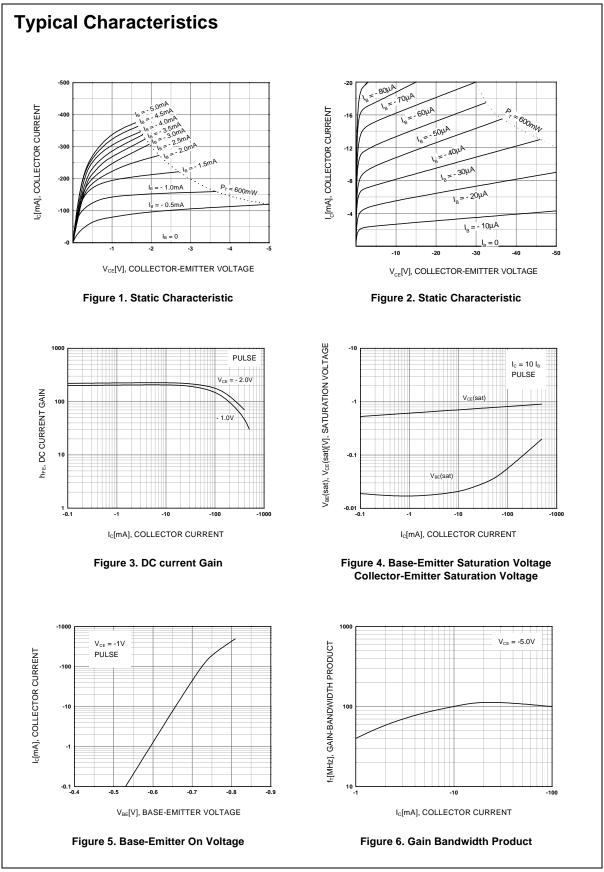
## Electrical Characteristics T<sub>a</sub>=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -10mA, I <sub>B</sub> =0				
	: BC327		-45			V
	: BC328		-25			V
BV <sub>CES</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -0.1mA, V <sub>BE</sub> =0				
	: BC327		-50			V
	: BC328		-30			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	$I_E = -10\mu A, I_C = 0$	-5			V
I <sub>CES</sub>	Collector Cut-off Current					
	: BC327	$V_{CE} = -45V, V_{BE} = 0$		-2	-100	nA
	: BC328	$V_{CE}$ = -25V, $V_{BE}$ =0		-2	-100	nA
h <sub>FE1</sub>	DC Current Gain	V <sub>CE</sub> = -1V, I <sub>C</sub> = -100mA	100		630	
$h_{FE2}$		$V_{CE} = -1V, I_{C} = -300 \text{mA}$	40			
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -500mA, I <sub>B</sub> = -50mA			-0.7	V
V <sub>BE</sub> (on)	Base-Emitter On Voltage	V <sub>CE</sub> = -1V, I <sub>C</sub> = -300mA			-1.2	V
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CE</sub> = -5V, I <sub>C</sub> = -10mA, f=20MHz		100		MHz
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> = -10V, I <sub>E</sub> =0, f=1MHz		12		pF

## **h**<sub>FE</sub> Classification

Classification	16	25	40
h <sub>FE1</sub>	100 ~ 250	160 ~ 400	250 ~ 630
h <sub>FE2</sub>	60-	100-	170-

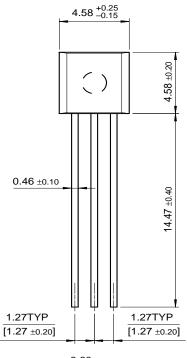
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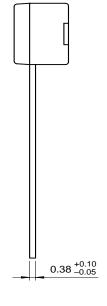


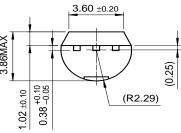
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# **Package Dimensions**

# TO-92







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