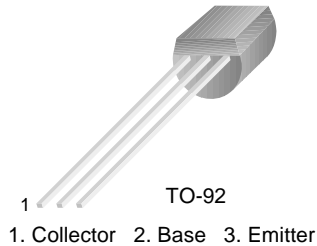


BC327/328

Switching and Amplifier Applications

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



PNP Epitaxial Silicon Transistor

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

Symbol	Parameter	Value	Units
V_{CES}	Collector-Emitter Voltage		
	: BC327	-50	V
	: BC328	-30	V
V_{CEO}	Collector-Emitter Voltage		
	: BC327	-45	V
	: BC328	-25	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	$^\circ\text{C}$
T_{STG}	Storage Temperature	-55 ~ 150	$^\circ\text{C}$

Electrical Characteristics $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -10\text{mA}, I_B = 0$	-45			V
			-25			V
BV_{CES}	Collector-Emitter Breakdown Voltage	$I_C = -0.1\text{mA}, V_{BE} = 0$	-50			V
			-30			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = -10\mu\text{A}, I_C = 0$	-5			V
I_{CES}	Collector Cut-off Current	$V_{CE} = -45\text{V}, V_{BE} = 0$ $V_{CE} = -25\text{V}, V_{BE} = 0$		-2	-100	nA
				-2	-100	nA
h_{FE1}	DC Current Gain	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$	100		630	
h_{FE2}		$V_{CE} = -1\text{V}, I_C = -300\text{mA}$	40			
$V_{CE}(\text{sat})$	Collector-Emitter Saturation Voltage	$I_C = -500\text{mA}, I_B = -50\text{mA}$			-0.7	V
$V_{BE}(\text{on})$	Base-Emitter On Voltage	$V_{CE} = -1\text{V}, I_C = -300\text{mA}$			-1.2	V
f_T	Current Gain Bandwidth Product	$V_{CE} = -5\text{V}, I_C = -10\text{mA}, f = 20\text{MHz}$		100		MHz
C_{ob}	Output Capacitance	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$		12		pF

h_{FE} Classification

Classification	16	25	40
h_{FE1}	100 ~ 250	160 ~ 400	250 ~ 630
h_{FE2}	60-	100-	170-

Typical Characteristics

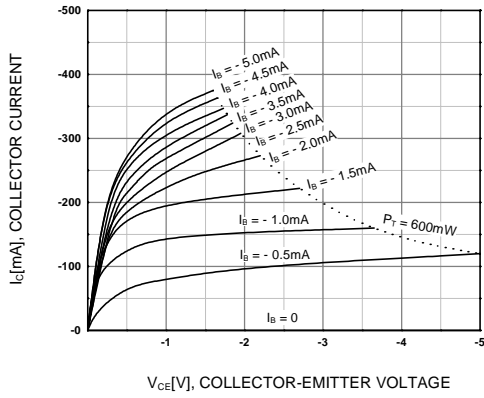


Figure 1. Static Characteristic



Figure 2. Static Characteristic



Figure 3. DC current Gain



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



Figure 5. Base-Emitter On Voltage



Figure 6. Gain Bandwidth Product

Package Dimensions

TO-92



Dimensions in Millimeters

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Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

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BC328

PNP Epitaxial Silicon Transistor

Contents

- [Features](#)
- [Applications](#)
- [Product status/pricing/packaging](#)
- [Order Samples](#)

• [Qualification Support](#)

Features

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

[back to top](#)

Applications

Switching and Amplifier

[back to top](#)

[Product status/pricing/packaging](#)

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Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**
BC328	Full Production	Full Production	\$0.083	TO-92	3	BULK	Line 1: \$Y (Fairchild logo) &Z (Asm. Plant Code) &3 (3-Digit Date Code) Line 2: BC328
BC32816BU	Full Production	Full Production	\$0.0296	TO-92	3	BULK	Line 1: BC328 Line 2: 16 Line 3: -&3
BC32816TA	Full Production		\$0.0296	TO-92	3	AMMO	Line 1: BC328 Line 2: 16 Line 3: -&3

		 Full Production					
BC32825	Full Production	 Full Production	\$0.083	TO-92	3	BULK	Line 1: \$Y (Fairchild logo) &Z (Asm. Plant Code) &3 (3-Digit Date Code) Line 2: BC328 Line 3: -25
BC32825BU	Full Production	 Full Production	\$0.0296	TO-92	3	BULK	Line 1: BC328 Line 2: 25 Line 3: -&3
BC32825TA	Full Production	 Full Production	\$0.0296	TO-92	3	AMMO	Line 1: BC328 Line 2: 25 Line 3: -&3
BC32840BU	Full Production	 Full Production	\$0.0296	TO-92	3	BULK	Line 1: BC328 Line 2: 40 Line 3: -&3
BC32840TA	Full Production	 Full Production	\$0.0296	TO-92	3	AMMO	Line 1: BC328 Line 2: 40 Line 3: -&3
BC328BU	Full Production	 Full Production	\$0.0296	TO-92	3	BULK	Line 1: BC328 Line 3: -&3
BC328TA	Full Production	 Full Production	\$0.0296	TO-92	3	AMMO	Line 1: BC328 Line 3: -&3
BC328TAR	Full Production	 Full Production	\$0.0296	TO-92	3	AMMO	Line 1: BC328 Line 3: -&3
BC328TF	Full Production	 Full Production	\$0.0296	TO-92	3	TAPE REEL	Line 1: BC328 Line 3: -&3
BC328TFR	Full Production	 Full Production	\$0.0296	TO-92	3	TAPE REEL	Line 1: BC328 Line 3: -&3

* Fairchild 1,000 piece Budgetary Pricing

** A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a [Fairchild distributor](#) to obtain samples



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[back to top](#)

Qualification Support

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Product
BC328
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BC32825
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BC328TAR
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[back to top](#)

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