

SEMICONDUCTOR®

BC327/328

Switching and Amplifier Applications

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



BC327/328

1. Collector 2. Base 3. Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°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	
I _C P _C T _J	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

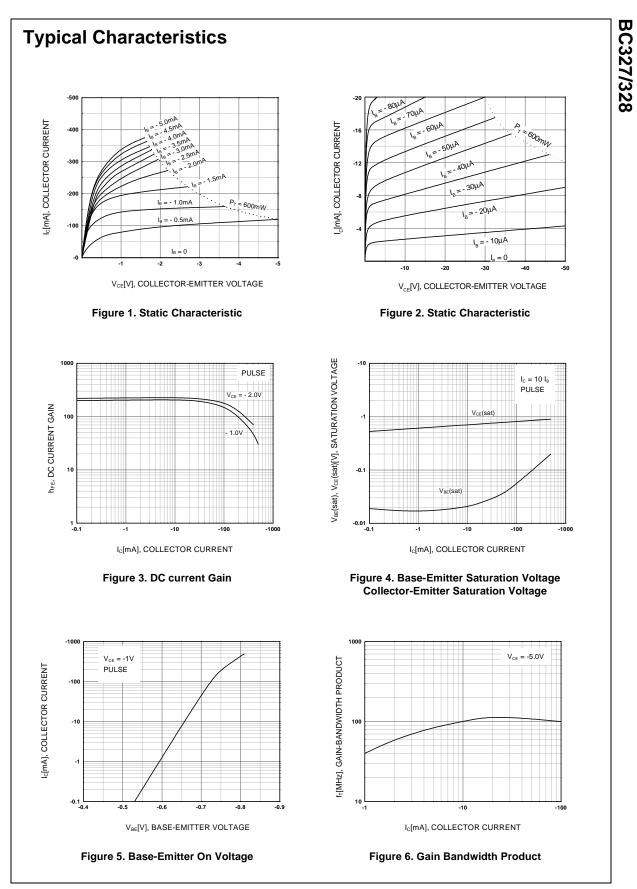
Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0				
	: BC327		-45			V
	: BC328		-25			V
BV _{CES}	Collector-Emitter Breakdown Voltage	I _C = -0.1mA, V _{BE} =0				
	: BC327		-50			V
	: BC328		-30			V
BV_{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA, I _C =0	-5			V
I _{CES}	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 _{FE1}	DC Current Gain	V _{CE} = -1V, I _C = -100mA	100		630	
h _{FE2}		V _{CE} = -1V, I _C = -300mA	40			
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

h_{FE} Classification

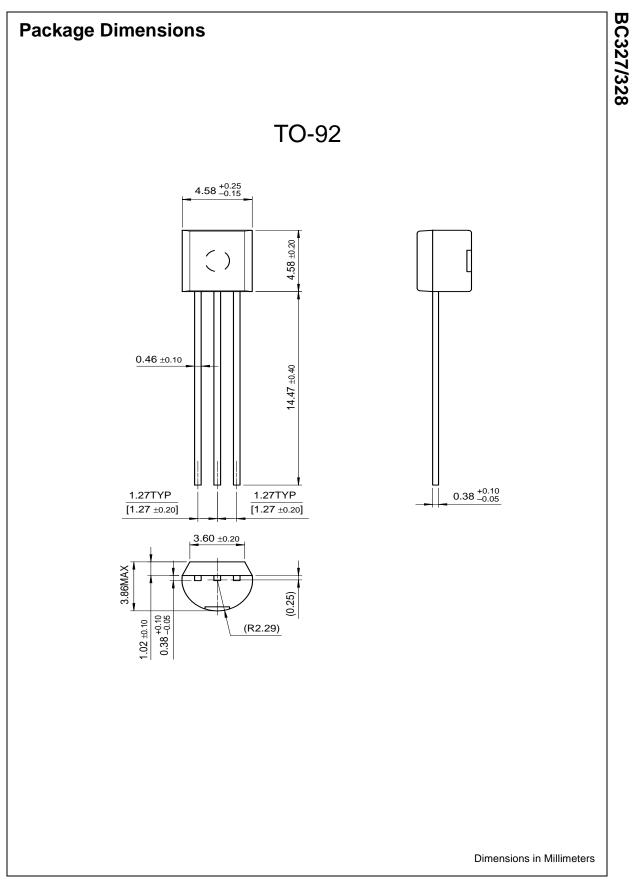
Classification	16	25	40
h _{FE1}	100 ~ 250	160 ~ 400	250 ~ 630
h _{FE2}	60-	100-	170-

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Definition of Terms

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.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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BC328 PNP Epitaxial Silicon Transistor

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Features

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

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Applications

Switching and Amplifier

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Product status/pricing/packaging



Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**
BC328	Full Production	Full Production	\$0.083	<u>TO-92</u>	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	<u>TO-92</u>	3	BULK	Line 1: BC328 Line 2: 16 Line 3: -&3
BC32816TA	Full Production		\$0.0296	<u>TO-92</u>	3	АММО	Line 1: BC328 Line 2: 16 Line 3: -&3

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Quality and reliability

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		Full Production					
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* 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 <u>Fairchild distributor</u> to obtain samples

Ø Indicates product with Pb-free second-level interconnect. For more information click here.

Package marking information for product BC328 is available. Click here for more information .

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Product
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