

SEMICONDUCTOR®

BC337/338

Switching and Amplifier Applications

- Suitable for AF-Driver stages and low power output stages
- Complement to BC327/BC328



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V _{CES}	Collector-Emitter Voltage			
	: BC337	50	V	
	: BC338	30	V	
V _{CEO}	Collector-Emitter Voltage			
	: BC337	45	V	
	: BC338	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

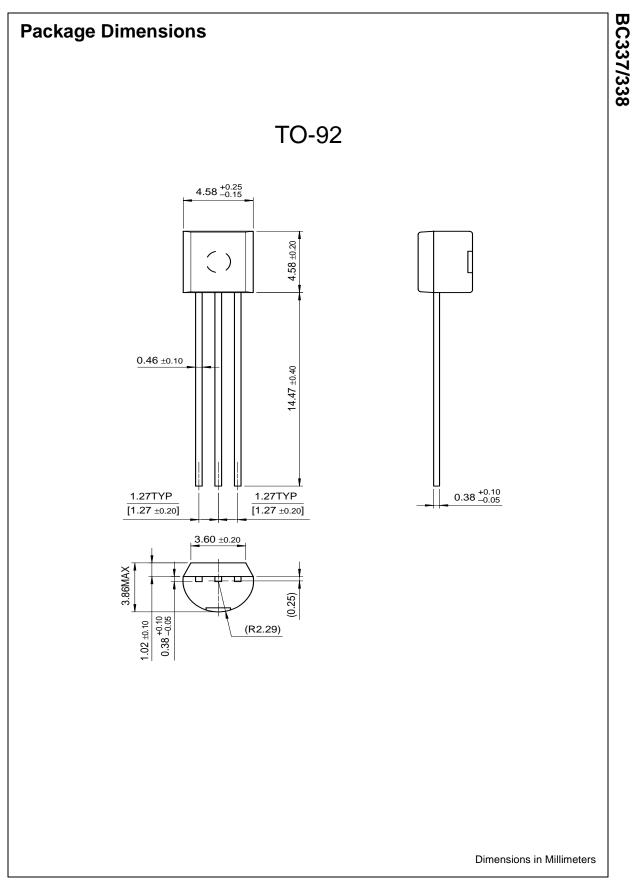
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA, I _B =0				
	: BC337		45			V
	: BC338		25			V
BV _{CES}	Collector-Emitter Breakdown Voltage	I _C =0.1mA, V _{BE} =0				
	: BC337		50			V
	: BC338		30			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =0.1mA, I _C =0	5			V
I _{CES}	Collector Cut-off Current					
	: BC337	V _{CE} =45V, I _B =0		2	100	nA
	: BC338	V _{CE} =25V, I _B =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	60			
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=50MHz		100		MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		12		pF

h_{FE} Classification

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h _{FF1} 100 ~ 250	400 400	050 000
n _{FE1} 100 ~ 250	160 ~ 400	250 ~ 630
h _{FE2} 60-	100-	170-

BC337/338



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PRODUCT STATUS DEFINITIONS

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.
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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BC337 NPN Epitaxial Silicon Transistor

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Features

- Suitable for AF-Driver stages and low power output stages
- Complement to BC327/BC328

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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**
BC337	Full Production	Full Production	\$0.082	<u>TO-92</u>	3	BULK	Line 1: \$Y (Fairchild logo) & Z (Asm. Plant Code) & 3 (3-Digit Date Code) Line 2: BC337
BC33716	Full Production	Full Production	\$0.082	<u>TO-92</u>	3	BULK	Line 1: \$Y (Fairchild logo) & Z (Asm. Plant Code) & 3 (3-Digit Date Code) Line 2: BC337 Line 3: -16
BC33716BU	Full Production		\$0.0296	<u>TO-92</u>	3	BULK	Line 1: BC337 Line 2: 16 Line 3: -&3



Request samples

- How to order products
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Product Change Notices (PCNs)

Support

Sales support

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Quality and reliability

Design center

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		Full Production					
BC33716TA	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	АММО	Line 1: BC337 Line 2: 16 Line 3: -&3
BC33716TAR	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	АММО	Line 1: BC337 Line 2: 16 Line 3: -&3
BC33716TF	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	TAPE REEL	Line 1: BC337 Line 2: 16 Line 3: -&3
BC33716TFR	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	TAPE REEL	Line 1: BC337 Line 2: 16 Line 3: -&3
BC33725	Full Production	Full Production	\$0.082	<u>TO-92</u>	3	BULK	Line 1: \$Y (Fairchild logo) & Z (Asm. Plant Code) & 3 (3-Digit Date Code) Line 2: BC337 Line 3: -25
BC33725BU	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	BULK	Line 1: BC337 Line 2: 25 Line 3: -&3
BC33725TA	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	АММО	Line 1: BC337 Line 2: 25 Line 3: -&3
BC33725TAR	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	АММО	Line 1: BC337 Line 2: 25 Line 3: -&3
BC33725TF	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	TAPE REEL	Line 1: BC337 Line 2: 25 Line 3: -&3
BC33725TFR	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	TAPE REEL	Line 1: BC337 Line 2: 25 Line 3: -&3

BC33740BU	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	BULK	Line 1: BC337 Line 2: 40 Line 3: -&3
BC33740TA	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	AMMO	Line 1: BC337 Line 2: 40 Line 3: -&3
BC337ABU	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	BULK	Line 1: BC337 Line 3: -&3
BC337BU	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	BULK	Line 1: BC337 Line 3: -&3
BC337TF	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	TAPE REEL	Line 1: BC337 Line 3: -&3
BC337TFR	Full Production	Full Production	\$0.0296	<u>TO-92</u>	3	TAPE REEL	Line 1: BC337 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 <u>Fairchild distributor</u> to obtain samples

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

Package marking information for product BC337 is available. Click here for more information.

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Qualification Support

Click on a product for detailed qualification data

Product	
<u>BC337</u>	
BC33716	
BC33716BU	
BC33716TA	
	I

<u>BC33716TAR</u>
BC33716TF
BC33716TFR
BC33725
BC33725BU
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