

**BC337 SERIES**  
**SILICON**  
**NPN TRANSISTORS**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR BC337 series devices are silicon NPN transistors designed for general purpose amplifier and switching applications.

**MARKING: FULL PART NUMBER**



**TO-92 CASE**

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance
Thermal Resistance

SYMBOL		UNITS
$V_{CBO}$	50	V
$V_{CEO}$	45	V
$V_{EBO}$	5.0	V
$I_C$	800	mA
$P_D$	625	mW
$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
$\theta_{JA}$	200	$^\circ\text{C/W}$
$\theta_{JC}$	83.3	$^\circ\text{C/W}$

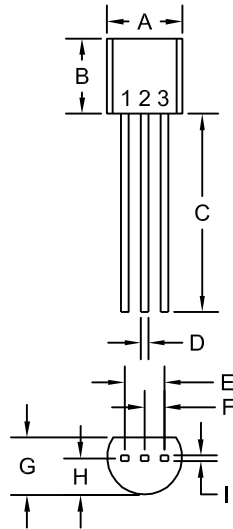
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_{CES}$	$V_{CE}=45\text{V}$			100	nA
$I_{CBO}$	$V_{CB}=30\text{V}$			100	nA
$I_{EBO}$	$V_{EB}=4.0\text{V}$			100	nA
$BV_{CES}$	$I_C=100\mu\text{A}$	50			V
$BV_{CEO}$	$I_C=10\text{mA}$	45			V
$BV_{EBO}$	$I_E=10\mu\text{A}$	5.0			V
$V_{CE(SAT)}$	$I_C=500\text{mA}, I_B=50\text{mA}$			0.7	V
$V_{BE(ON)}$	$V_{CE}=1.0\text{V}, I_C=300\text{mA}$			1.2	V
$h_{FE}$	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC337)	100		630	
$h_{FE}$	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC337-16)	100		250	
$h_{FE}$	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC337-25)	160		400	
$h_{FE}$	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC337-40)	250		630	
$h_{FE}$	$V_{CE}=1.0\text{V}, I_C=300\text{mA}$	60			
$f_T$	$V_{CE}=5.0\text{V}, I_C=10\text{mA}, f=100\text{MHz}$		210		MHz
$C_{ob}$	$V_{CB}=10\text{V}, I_E=0, f=1.0\text{MHz}$		15		pF

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TO-92 CASE - MECHANICAL OUTLINE



R1

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.175	0.205	4.45	5.21
B	0.170	0.210	4.32	5.33
C	0.500	-	12.70	-
D	0.016	0.022	0.41	0.56
E	0.100		2.54	
F	0.050		1.27	
G	0.125	0.165	3.18	4.19
H	0.080	0.105	2.03	2.67
I	0.015		0.38	

TO-92 (REV: R1)

**LEAD CODE:**

- 1) Collector
- 2) Base
- 3) Emitter

**MARKING:**

**FULL PART NUMBER**

R2 (6-August 2014)



## OUTSTANDING SUPPORT AND SUPERIOR SERVICES

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### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

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- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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### REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.  
145 Adams Avenue  
Hauppauge, NY 11788 USA  
Main Tel: (631) 435-1110  
Main Fax: (631) 435-1824  
Support Team Fax: (631) 435-3388  
[www.centrasemi.com](http://www.centrasemi.com)

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