

PN3567
PN3568
PN3569

**SILICON
NPN TRANSISTORS**



TO-92 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR PN3567 series devices are silicon NPN small signal transistors designed for general purpose amplifier applications.

MARKING: FULL PART NUMBER

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

	PN3567	PN3568	PN3569	UNITS
Collector-Base Voltage	80	80	80	V
Collector-Emitter Voltage	40	60	40	V
Emitter-Base Voltage		5.0		V
Continuous Collector Current		500		mA
Continuous Base Current		100		mA
Power Dissipation		625		mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150		$^{\circ}\text{C}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CBO}	$V_{CB}=40\text{V}$		50	nA
I_{CBO}	$V_{CB}=40\text{V}, T_A=75^{\circ}\text{C}$		5.0	μA
I_{EBO}	$V_{EB}=4.0\text{V}$		25	nA
BV_{CBO}	$I_C=100\mu\text{A}$	80		V
BV_{CEO}	$I_C=30\text{mA}$ (PN3568)	60		V
BV_{CEO}	$I_C=30\text{mA}$ (PN3567, PN3569)	40		V
BV_{EBO}	$I_E=10\mu\text{A}$	5.0		V
$V_{CE(SAT)}$	$I_C=150\text{mA}, I_B=15\text{mA}$		250	mV
$V_{BE(ON)}$	$V_{CE}=1.0\text{V}, I_C=150\text{mA}$		1.1	V
h_{FE}	$V_{CE}=1.0\text{V}, I_C=30\text{mA}$ (PN3567, PN3568)	40		
h_{FE}	$V_{CE}=1.0\text{V}, I_C=30\text{mA}$ (PN3569)	100		
h_{FE}	$V_{CE}=1.0\text{V}, I_C=150\text{mA}$ (PN3567, PN3568)	40	120	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=150\text{mA}$ (PN3569)	100	300	
C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=140\text{kHz}$		20	pF
C_{ib}	$V_{EB}=0.5\text{V}, I_C=0, f=140\text{kHz}$		80	pF
f_T	$V_{CE}=10\text{V}, I_C=50\text{mA}, f=20\text{MHz}$	60	600	MHz

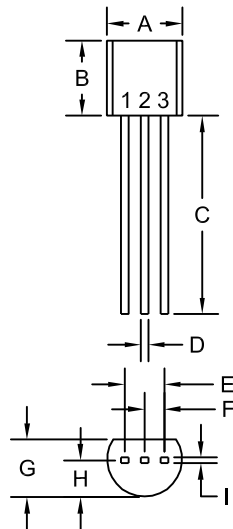
R1 (16-December 2013)

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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) Emitter
- 2) Base
- 3) Collector

MARKING:
FULL PART NUMBER

R1 (16-December 2013)

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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

DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- 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

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).

CONTACT US

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