

PN4249

PNP SILICON TRANSISTOR



TO-92 CASE

Central
Semiconductor Corp.

www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR PN4249 is a PNP silicon transistor designed for low level, low noise amplifier applications.

MARKING: FULL PART NUMBER

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

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

SYMBOL

V_{CB0} 60
 V_{CES} 60
 V_{CEO} 60
 V_{EBO} 5.0
 I_C 500
 P_D 625
 T_J, T_{stg} -65 to +150

UNITS

V
V
V
V
mA
mW
 $^\circ\text{C}$

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

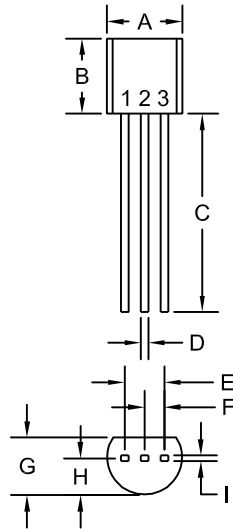
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CBO}	$V_{CB}=40\text{V}$		10	nA
I_{EBO}	$V_{EB}=3.0\text{V}$		20	nA
BV_{CBO}	$I_C=10\mu\text{A}$	60		V
BV_{CES}	$I_C=10\mu\text{A}$	60		V
BV_{CEO}	$I_C=5.0\text{mA}$	60		V
BV_{EBO}	$I_E=10\mu\text{A}$	5.0		V
$V_{CE(SAT)}$	$I_C=10\text{mA}, I_B=0.5\text{mA}$		0.25	V
$V_{BE(SAT)}$	$I_C=10\text{mA}, I_B=0.5\text{mA}$		0.9	V
h_{FE}	$V_{CE}=5.0\text{V}, I_C=100\mu\text{A}$	100	300	
h_{FE}	$V_{CE}=5.0\text{V}, I_C=1.0\text{mA}$	100		
h_{FE}	$V_{CE}=5.0\text{V}, I_C=10\text{mA}$	100		
f_T	$V_{CE}=5.0\text{V}, I_C=0.5\text{mA}, f=20\text{MHz}$	40		MHz
C_{ob}	$V_{CB}=5.0\text{V}, f=1.0\text{MHz}$		6.0	pF
C_{ib}	$V_{EB}=0.5\text{V}, f=1.0\text{MHz}$		16	pF
NF	$V_{CE}=5.0\text{V}, I_C=20\mu\text{A}, R_S=100\text{k}\Omega$ PBW=15.7kHz, f=10Hz to 10kHz		3.0	dB
NF	$V_{CE}=5.0\text{V}, I_C=20\mu\text{A}, R_S=10\text{k}\Omega$ PBW=150Hz, f=1.0kHz		3.0	dB

R0 (21-June 2011)

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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**

R0 (21-June 2011)