PN4250A

SILICON
PNP TRANSISTOR



TO-92 CASE

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR PN4250A is a silicon PNP transistor designed for low level, low noise amplifier applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CES}	60	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	I_C	500	mA
Power Dissipation	P_D	625	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JC}	83.3	°C/W
Thermal Resistance	Θ_{JA}	200	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

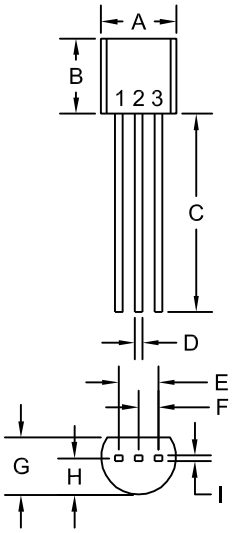
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**UNITS**
I_{CBO}	V_{CB}=50V		10	nA
I_{EBO}	V_{EB}=3.0V		20	nA
BV_{CBO}	I_C=10μA	60		V
BV_{CES}	I_C=10μA	60		V
BV_{CEO}	I_C=5.0mA	60		V
BV_{EBO}	I_E=10μA	5.0		V
$V_{CE(SAT)}$	I_C=10mA, I_B=0.5mA		0.25	V
h_{FE}	V_{CE}=5.0V, I_C=100μA	250	700	
C_{ob}	V_{CB}=5.0V, f=1.0MHz		6.0	pF
h_{fe}	V_{CE}=5.0V, I_C=1.0mA, f=1.0kHz	250	800	
h_{ie}	V_{CE}=5.0V, I_C=1.0mA, f=1.0kHz	6.0	20	kΩ
h_{oe}	V_{CE}=5.0V, I_C=1.0mA, f=1.0kHz	5.0	50	μS
h_{re}	V_{CE}=5.0V, I_C=1.0mA, f=1.0kHz		10	$x10^{-4}$
NF	V_{CE}=5.0V, I_C=250μA, R_S=1.0kΩ			
	f=1.0kHz, BW=150Hz		2.0	dB
NF	V_{CE}=5.0V, I_C=20μA, R_S=10kΩ			
	f=1.0kHz, BW=150Hz		2.0	dB

R0 (26-July 2013)

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TO-92 CASE - MECHANICAL OUTLINE



R1

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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

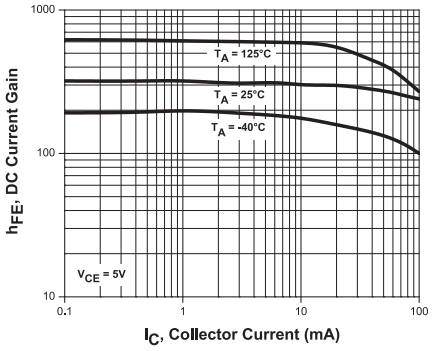
MARKING:
FULL PART NUMBER

PN4250A

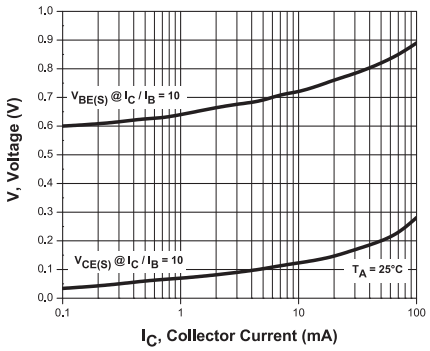
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TYPICAL ELECTRICAL CHARACTERISTICS

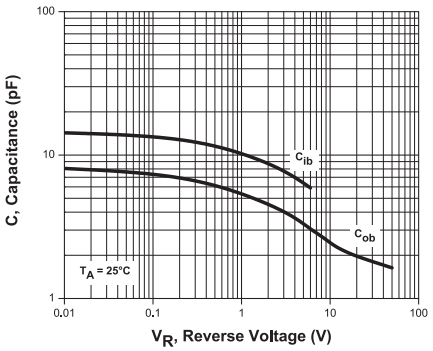
DC Current Gain



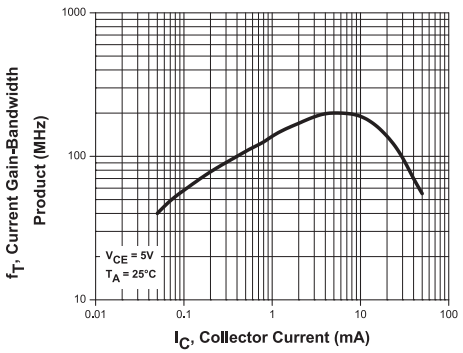
"ON" Voltage



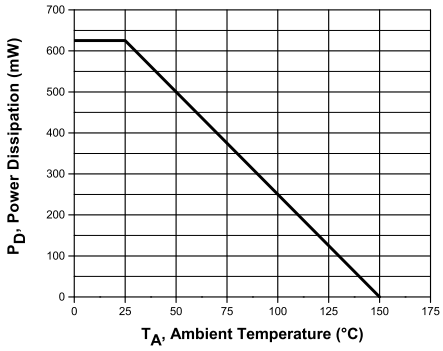
Capacitance



Current Gain-Bandwidth Product



Power Derating



R0 (26-July 2013)

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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