PN3565

SILICON
NPN TRANSISTOR



TO-92 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR PN3565 is a silicon NPN epitaxial planar transistor designed for low noise applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	25	V
Emitter-Base Voltage	V_{EBO}	6.0	V
Continuous Collector Current	I_C	50	mA
Power Dissipation	P_D	625	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	200	°C/W

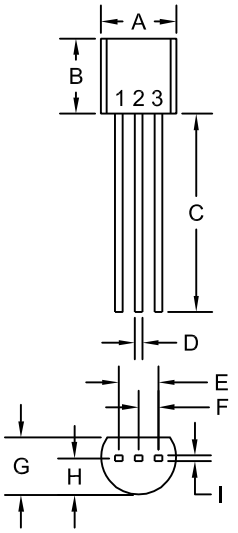
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**UNITS**
I_{CBO}	V_{CB}=25V		50	nA
I_{CBO}	V_{CB}=25V, T_A=65°C		3.0	µA
BV_{CBO}	I_C=100µA	30		V
BV_{CEO}	I_C=2.0mA	25		V
BV_{EBO}	I_E=10µA	6.0		V
$V_{CE(SAT)}$	I_C=1.0mA, I_B=0.1mA		0.35	V
h_{FE}	V_{CE}=10V, I_C=100µA	70		
h_{FE}	V_{CE}=10V, I_C=1.0mA	150	600	
h_{fe}	V_{CE}=5.0V, I_C=1.0mA, f=1.0kHz	120	750	
f_T	V_{CE}=5.0V, I_C=1.0mA, f=20MHz	40	240	MHz
h_{ie}	V_{CE}=5.0V, I_C=1.0mA, f=1.0kHz	2.0	20	kΩ
h_{oe}	V_{CE}=5.0V, I_C=1.0mA, f=1.0kHz	0.5	100	µS
C_{ob}	V_{CB}=5.0V, I_E=0, f=140kHz		4.0	pF

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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

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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