PN3566

NPN SILICON TRANSISTOR

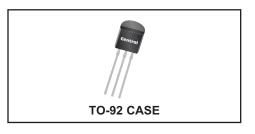


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR PN3566 is a small signal NPN silicon transistor, manufactured by the epitaxial planar process, designed for general purpose amplifier applications where high collector current is required.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	IC	600	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)

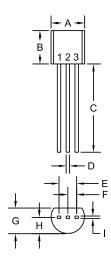
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =20V		50	nA
I _{EBO}	V _{EB} =5.0V		10	μΑ
BV _{CBO}	I _C =100μA	40		V
BV _{CEO}	I _C =30mA	30		V
BVEBO	I _E =10μA	5.0		V
V _{CE} (SAT)	I _C =100mA, I _B =10mA		1.0	V
V _{BE(ON)}	V_{CE} =1.0V, I_{C} =100mA		0.9	V
hFE	V_{CE} =10V, I_{C} =2.0mA	80		
hFE	V_{CE} =10V, I_{C} =10mA	150	600	
C _{ob}	V_{CB} =10V, I_E =0		25	pF

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TO-92 CASE - MECHANICAL OUTLINE



R1

LEAD CODE:1) Emitter

- 2) Base
- 3) Collector

MARKING:

FULL PART NUMBER

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A (DIA)	0.175	0.205	4.45	5.21			
В	0.170	0.210	4.32	5.33			
С	0.500	ı	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			
Н	0.080	0.105	2.03	2.67			
	0.015		0.38				

TO-92 (REV: R1)

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 guick 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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