

PN2906 PN2906A
PN2907 PN2907A

PNP SILICON TRANSISTOR



TO-92 CASE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR PN2906, PN2907 series types are silicon PNP epitaxial planar transistors designed for small signal, general purpose switching applications.

MARKING: FULL PART NUMBER

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

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

SYMBOL	PN2906	PN2906A	UNITS
	PN2907	PN2907A	
V_{CBO}	60	60	V
V_{CEO}	40	60	V
V_{EBO}		5.0	V
I_C		600	mA
P_D		625	mW
T_J, T_{stg}	-65 to +150		$^{\circ}\text{C}$
θ_{JA}	200		$^{\circ}\text{C/W}$

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

		PN2906		PN2906A		
		PN2907		PN2907A		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
I _{CBO}	V _{CB} =50V	-	20	-	10	nA
I _{CEV}	V _{CE} =30V, V _{EB} =0.5V	-	50	-	50	nA
BV _{CBO}	I _C =10μA	60	-	60	-	V
BV _{CEO}	I _C =10mA	40	-	60	-	V
BV _{EBO}	I _E =10μA	5.0	-	5.0	-	V
V _{CE} (SAT)	I _C =150mA, I _B =15mA	-	0.4	-	0.4	V
V _{CE} (SAT)	I _C =500mA, I _B =50mA	-	1.6	-	1.6	V
V _{BE} (SAT)	I _C =150mA, I _B =15mA	-	1.3	-	1.3	V
V _{BE} (SAT)	I _C =500mA, I _B =50mA	-	2.6	-	2.6	V
f _T	V _{CE} =20V, I _C =50mA, f=200MHz	200	-	200	-	MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz	-	8.0	-	8.0	pF
C _{ib}	V _{EB} =2.0V, I _C =0, f=1.0MHz	-	30	-	30	pF
t _{on}	V _{CC} =30V, I _C =150mA, I _{B1} =15mA	-	45	-	45	ns
t _{off}	V _{CC} =6.0V, I _C =150mA, I _{B1} =I _{B2} =15mA	-	100	-	100	ns

PN2906 PN2906A
PN2907 PN2907A

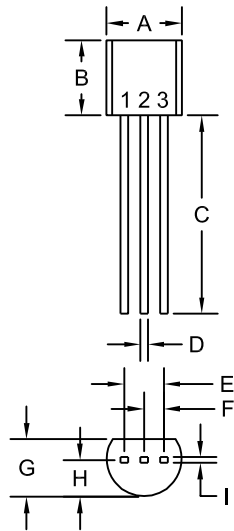
PNP SILICON TRANSISTOR



ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^\circ\text{C}$)

SYMBOL	TEST CONDITIONS	PN2906 PN2906A		PN2907 PN2907A	
		MIN	MAX	MIN	MAX
h_{FE}	$V_{CE}=10\text{V}$, $I_C=0.1\text{mA}$ (PN2906, PN2907)	20	-	35	-
h_{FE}	$V_{CE}=10\text{V}$, $I_C=0.1\text{mA}$ (PN2906A, PN2907A)	40	-	75	-
h_{FE}	$V_{CE}=10\text{V}$, $I_C=1.0\text{mA}$ (PN2906, PN2907)	25	-	50	-
h_{FE}	$V_{CE}=10\text{V}$, $I_C=1.0\text{mA}$ (PN2906A, PN2907A)	40	-	100	-
h_{FE}	$V_{CE}=10\text{V}$, $I_C=10\text{mA}$ (PN2906, PN2907)	35	-	75	-
h_{FE}	$V_{CE}=10\text{V}$, $I_C=10\text{mA}$ (PN2906A, PN2907A)	40	-	100	-
h_{FE}	$V_{CE}=10\text{V}$, $I_C=150\text{mA}$	40	120	100	300
h_{FE}	$V_{CE}=10\text{V}$, $I_C=500\text{mA}$ (PN2906, PN2907)	20	-	30	-
h_{FE}	$V_{CE}=10\text{V}$, $I_C=500\text{mA}$ (PN2906A, PN2907A)	40	-	50	-

TO-92 CASE - MECHANICAL OUTLINE



R1

DIMENSIONS				
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

R2 (30-January 2012)

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).

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