

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

PN2906
PN2906A
PN2907
PN2907A

PNP SILICON TRANSISTOR

JEDEC TO-92 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR PN2906, A, PN2907, A types are Silicon PNP Epitaxial Planar Transistors designed for small signal general purpose and switching applications.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL	PN2906	PN2906A	UNITS
		PN2907	PN2907A	
Collector-Base Voltage	V _{CB0}	60	60	V
Collector-Emitter Voltage	V _{CEO}	40	60	V
Emitter-Base Voltage	V _{EBO}		5.0	V
Collector Current - Continuous	I _C	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	PN2906 PN2907		PN2906A PN2907A		UNITS
		MIN	MAX	MIN	MAX	
I _{CB0}	V _{CB} =50V		20		10	nA
I _{CEV}	V _{CE} =30V, V _{EB(off)} =0.5V		50		50	nA
BV _{CB0}	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

SYMBOL	TEST CONDITIONS	PN2906		PN2906A		PN2907		PN2907A		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
h _{FE}	V _{CE} =10V, I _C =100μA	20		40		35		75		
h _{FE}	V _{CE} =10V, I _C =1.0mA	25		40		50		100		
h _{FE}	V _{CE} =10V, I _C =10mA	35		40		75		100		
h _{FE}	V _{CE} =10V, I _C =150mA			40	120			100	300	
h _{FE}	V _{CE} =10V, I _C =500mA	20		40		30		50		

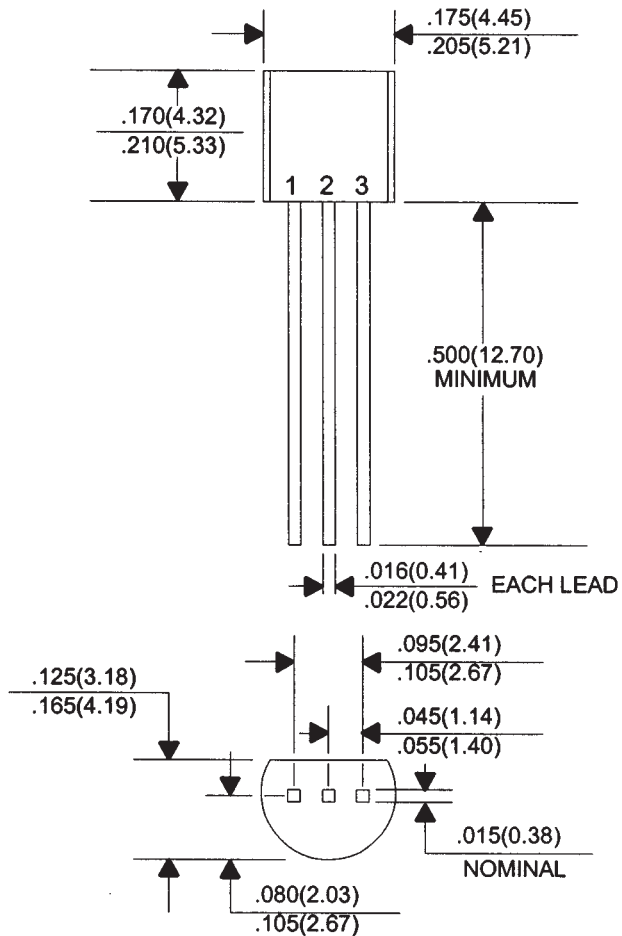
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ELECTRICAL CHARACTERISTICS (Continued)

SYMBOL	TEST CONDITIONS	All Part Numbers		UNITS
		MIN	MAX	
f_T	$V_{CE}=20V, I_C=50mA, f=200MHz$	200		MHz
C_{ob}	$V_{CB}=10V, I_E=0, f=100kHz$		8.0	pF
t_{ON}	$V_{CC}=30V, I_C=150mA, I_B=15mA$		45	ns
t_{OFF}	$V_{CC}=6.0V, I_C=150mA, I_{B1}=I_{B2}=15mA$		100	ns

JEDEC TO-92 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).

Lead Code:

- 1) Emitter
- 2) Base
- 3) Collector

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