2N3905 2N3906

PNP SILICON TRANSISTOR

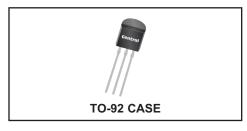


www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3905 and 2N3906 types are PNP silicon transistors designed for general purpose amplifier and switching applications. NPN complementary types are 2N3903 and 2N3904.





MAXIMUM RATINGS: (TA=25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	l _C	200	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

	CHARACTERISTICS: (T _A =25°C)	2N3		2N3		LINUTO
SYMBOL	TEST CONDITIONS	MIN	MAX 50	MIN	MAX 50	UNITS
ICEV	V _{CE} =30V, V _{EB} =3.0V	-		-	50	nA
BV _{CBO}	I _C =10μA	40	-	40	-	V
BV _{CEO}	I _C =1.0mA	40	-	40	-	V
BVEBO	I _E =10μA	5.0	-	5.0	-	V
VCE(SAT)	I _C =10mA, I _B =1.0mA	-	0.25	-	0.25	V
VCE(SAT)	I _C =50mA, I _B =5.0mA	-	0.4	-	0.4	V
V _{BE} (SAT)	I _C =10mA, I _B =1.0mA	0.65	0.85	0.65	0.85	V
V _{BE} (SAT)	I _C =50mA, I _B =5.0mA	-	0.95	-	0.95	V
h _{FE} ` ´	$V_{CE}=1.0V, I_{C}=0.1mA$	30	-	60	-	
hFE	V _{CE} =1.0V, I _C =1.0mA	40	-	80	-	
hFE	V_{CE} =1.0V, I_{C} =10mA	50	150	100	300	
h _{FE}	V_{CE} =1.0V, I_{C} =50mA	30	-	60	-	
hFE	V _{CE} =1.0V, I _C =100mA	15	-	30	-	
h _{fe}	V_{CE} =10V, I_{C} =1.0mA, f=1.0kHz	50	200	100	400	
f _T	V_{CE} =20V, I_{C} =10mA, f=100MHz	200	-	250	-	MHz
C _{ob}	V_{CB} =5.0V, I_{E} =0, f=100kHz	-	4.5	-	4.5	pF
C _{ib}	V_{EB} =0.5V, I_{C} =0, f=100kHz	-	10	-	10	pF
NF	V_{CE} =5.0V, I_{C} =100 μ A, R_{S} =1.0 $k\Omega$					
	f=10Hz to 15.7kHz	-	5.0	-	4.0	dB
ton	V _{CC} =3.0V, V _{BE(OFF)} =0.5V, I _C =10mA					
	I _{B1} =1.0mA	-	70	-	70	ns
toff	V _{CC} =3.0V, I _C =10mA, I _{B1} =I _{B2} =1.0mA	-	260	-	300	ns

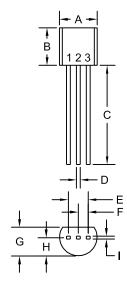
R2 (17-October 2011)

2N3905 2N3906

PNP SILICON TRANSISTOR



TO-92 CASE - MECHANICAL OUTLINE



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	-	12.70	-		
D	0.016	0.022	0.41	0.56		
Е	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)

LEAD CODE:

- 1) Emitter 2) Base 3) Collector

MARKING:

R1

FULL PART NUMBER