2N3704 2N3705 2N3706

SILICON NPN TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3704, 2N3705, and 2N3706 are silicon NPN planar transistors designed for general purpose amplifier and switching applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C) Collector-Base Voltage	SYMBOL V _{CBO}	2N3704 50	2N3705 50	2N3706 40	UNITS V
Collector-Emitter Voltage	V_{CEO}	30	30	20	V
Emitter-Base Voltage	V_{EBO}		5.0		V
Continuous Collector Current	IC		800		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

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25 ^{\circ} \mbox{C unless otherwise noted})$

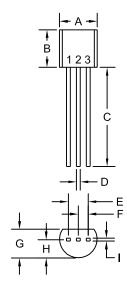
		<u>2N3704</u>		2N3	<u>2N3705</u>		<u>2N3706</u>	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
ICBO	V _{CB} =20V	-	100	-	100	-	100	nA
I _{EBO}	V _{EB} =3.0V	-	100	-	100	-	100	nA
BV _{CBO}	I _C =100μA	50	-	50	-	40	-	V
BVCEO	I _C =10mA	30	-	30	-	20	-	V
BV EBO	I _E =100μA	5.0	-	5.0	-	5.0	-	V
V _{CE(SAT)}	I_C =100mA, I_B =5.0mA	-	0.6	-	8.0	-	1.0	V
V _{BE(ON)}	V_{CE} =2.0V, I_{C} =100mA	0.5	1.0	0.5	1.0	0.5	1.0	V
hFE	V_{CE} =2.0V, I_{C} =50mA	100	300	50	150	30	600	
f_T	V_{CE} =2.0V, I_{C} =50mA	100	-	100	-	100	-	MHz
C _{ob}	V _{CB} =10V, f=1.0MHz	-	12	-	12	-	12	рF

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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	
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)

LEAD CODE:

- Emitter
 Collector
- 3) Base

R1

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 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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