2N4904 2N4905 2N4906 PNP 2N4913 2N4914 2N4915 NPN

COMPLEMENTARY SILICON POWER TRANSISTORS

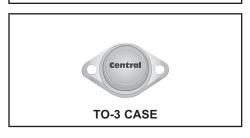


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N4904, 2N4913 series types are complementary silicon power transistors, manufactured by the epitaxial base process, designed for general purpose amplifier and switching applications.





MAXIMUM RATINGS: (T _C =25°C)	SYMBOL	2N4904 2N4913	2N4905 2N4914	2N4906 2N4915	UNITS
Collector-Base Voltage	V_{CBO}	40	60	80	V
Collector-Emitter Voltage	V_{CEO}	40	60	80	V
Emitter-Base Voltage	V_{EBO}		5.0		V
Continuous Collector Current	I_{C}		5.0		Α
Continuous Base Current	I_{B}		1.0		Α
Power Dissipation	P_{D}		87.5		W
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +200		°C
Thermal Resistance	ΘJC		2.0		°C/W

ELECTRICAL CHARACTERISTICS: (T_C=25°C unless otherwise noted)

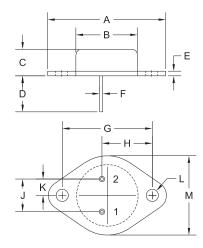
	2 OTTAINAGE LINGS TO COMPANY		NP	NF	PN	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
ICBO	V _{CB} =Rated V _{CBO}	-	0.1	-	1.0	mA
ICEO	V _{CE} =Rated V _{CEO}	-	1.0	-	1.0	mA
ICEV	V _{CE} =Rated V _{CEO} , V _{BE} =1.5V	-	0.1	-	1.0	mA
ICEV	V_{CE} =Rated V_{CEO} , V_{BE} =1.5V, T_{C} =150°C	-	2.0	-	2.0	mA
I _{EBO}	V _{EB} =5.0V	-	1.0	-	1.0	mA
BVCEO	I _C =200mA (2N4904, 2N4913)	40	-	40	-	V
BV _{CEO}	I _C =200mA (2N4905, 2N4914)	60	-	60	-	V
BV_{CEO}	I _C =200mA (2N4906, 2N4915)	80	-	80	-	V
V _{CE} (SAT)	I _C =2.5A, I _B =250mA	-	1.0	-	1.0	V
VCE(SAT)	I _C =5.0A, I _B =1.0A	-	1.5	-	1.5	V
V _{BE(ON)}	V_{CE} =2.0V, I_{C} =2.5A	-	1.4	-	1.4	V
h _{FE}	V_{CE} =2.0V, I_{C} =2.5A	25	100	25	100	
h _{FE}	V_{CE} =2.0V, I_{C} =5.0A	7.0	-	7.0	-	
h _{fe}	V_{CE} =10V, I_{C} =500mA, f=1.0kHz	40	-	20	-	
f_{T}	V _{CE} =10V, I _C =1.0A, f=1.0MHz	4.0	-	4.0	-	MHz

2N4904 2N4905 2N4906 PNP 2N4913 2N4914 2N4915 NPN

COMPLEMENTARY SILICON POWER TRANSISTORS



TO-3 CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	1.516	1.573	38.50	39.96		
B (DIA)	0.748	0.875	19.00	22.23		
С	0.250	0.450	6.35	11.43		
D	0.433	0.516	11.00	13.10		
Е	0.054	0.065	1.38	1.65		
F	0.035	0.045	0.90	1.15		
G	1,177	1,197	29.90	30.40		
Н	0.650	0.681	16.50	17.30		
J	0.420	0.440	10.67	11.18		
K	0.205	0.225	5.21	5.72		
L (DIA)	0.151	0.172	3.84	4.36		
М	0.984	1.050	25.00	26.67		

TO-3 (REV: R2)

R2

LEAD CODE:

- 1) Base

2) Emitter Case) Collector

MARKING:

FULL PART NUMBER



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Central's operations team provides the highest level of support to insure product is delivered on-time.

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- · Consolidated shipping options

- Custom bar coding for shipments
- · Custom product packing

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- · Online technical data and parametric search
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- · 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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