imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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PNP SILICON QUAD TRANSISTOR

TO-116 CASE



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPQ2906, MPQ2907 types are comprised of four independent PNP silicon transistors mounted in a 14-pin DIP, designed for small signal, general purpose amplifier and switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	5.0	V
Continuous Collector Current	۱ _C	600	mA
Power Dissipation (per transistor)	PD	650	mW
Power Dissipation (total package)	PD	2.0	W
Operating and Storage Junction Temperature	T _J , T _{stq}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS PER TRANSISTOR: (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
ICBO	V _{CB} =30V			50	nA
IEBO	V _{EB} =3.0V			50	nA
BVCBO	Ι _C =10μΑ	60			V
BVCEO	I _C =10mA	40			V
BVEBO	I _E =10μΑ	5.0			V
V _{CE(SAT)}	I _C =150mA, I _B =15mA			0.4	V
V _{CE(SAT)}	I _C =300mA, I _B =30mA			1.6	V
V _{BE(SAT)}	I _C =150mA, I _B =15mA			1.3	V
V _{BE(SAT)}	I _C =300mA, I _B =30mA			2.6	V
f _T	V _{CE} =20V, I _C =50mA, f=100MHz	200			MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz			8.0	pF
C _{ib}	V _{BE} =2.0V, I _C =0, f=1.0MHz			30	pF
t _{on}	V _{CC} =30V, I _C =150mA, I _{B1} =15mA		30		ns
toff	V_{CC} =6.0V, I _C =150mA, I _{B1} =I _{B2} =15mA		150		ns

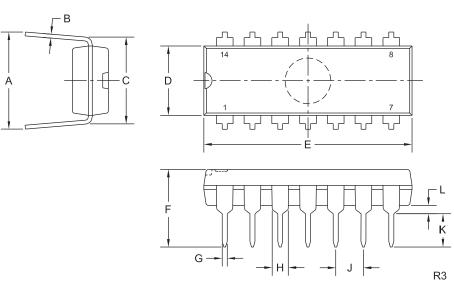
		<u>MPQ2906</u>		MPQ2907	
		MIN	MAX	MIN	MAX
hFE	V _{CE} =10V, I _C =10mA	35	-	75	-
hFE	V _{CE} =10V, I _C =150mA	40	-	100	-
hFE	V _{CE} =10V, I _C =300mA	30	-	50	-

R1 (30-January 2012)



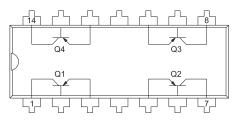
MPQ2906 MPQ2907

PNP SILICON QUAD TRANSISTOR



TO-116 CASE - MECHANICAL OUTLINE

PIN CONFIGURATION



LEAD CODE:

 Collector Q1 	Collector Q3
2) Base Q1	9) Base Q3
Emitter Q1	10) Emitter Q3
4) No Connection	11) No Connection
5) Emitter Q2	12) Emitter Q4
6) Base Q2	13) Base Q4
7) Collector Q2	14) Collector Q4



DIMENSIONS				
	INCHES		MILLIMETER	
SYMBOL	MIN	MAX	MIN	MAX
А	0.310	0.390	7.9	9.9
В	0.008	0.014	0.2	0.4
С	0.310		7.9	
D	0.240	0.260	6.1	6.6
E	0.740	0.760	18.8	19.3
F	-	0.300	-	7.6
G	0.014	0.022	0.4	0.6
Н	0.050		1.3	
J	0.100		2.5	
K	0.125	0.150	3.2	3.8
L	0.015	-	0.4	-
TO 116 (DEV/- D2)				

TO-116 (REV: R3)

R1 (30-January 2012)

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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

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

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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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