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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







MPQ3906

PNP SILICON QUAD TRANSISTOR

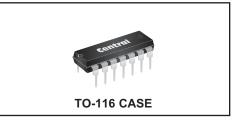


www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPQ3906 type is comprised of four independent PNP silicon transistors mounted in a 14-pin DIP, designed for general purpose amplifier and switching applications.





MAXIMUM RATINGS: (T _A =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	$I_{\mathbb{C}}$	200	mA
Power Dissipation (per transistor)	P_{D}	500	mW
Power Dissipation (total package)	P_{D}	2.0	W
Operating and Storage Junction Temperature	$T_{.l}, T_{sta}$	-65 to +150	°C

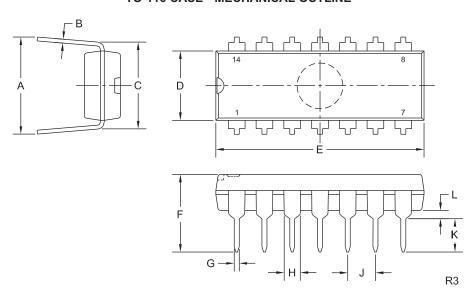
Storage Junction Temperature	'J [,] 'stg	-03 10	7 + 150	C
CHARACTERISTICS PER TRANS	ISTOR: (T _A =25	°C)		
TEST CONDITIONS	MIN	TYP	MAX	UNITS
V _{CB} =30V			50	nA
V _{EB} =4.0V			50	nA
I _C =10μA	40			V
I _C =1.0mA	40			V
I _E =10μA	5.0			V
I _C =10mA, I _B =1.0mA			0.25	V
I _C =10mA, I _B =1.0mA			0.85	V
V_{CE} =1.0V, I_{C} =0.1mA	40			
V_{CE} =1.0V, I_{C} =1.0mA	60			
V_{CE} =1.0V, I_{C} =10mA	75			
V_{CE} =20V, I_{C} =10mA, f=100MHz	200			MHz
V_{CB} =5.0V, I_{E} =0, f=140kHz			4.5	pF
V_{BE} =0.5V, I_{C} =0, f=140kHz			10	pF
V_{BE} =0.5V, I_{C} =10mA, I_{B1} =1.0mA		43		ns
I _C =10mA, I _{B1} =I _{B2} =1.0mA		155		ns
	CHARACTERISTICS PER TRANS TEST CONDITIONS V _{CB} =30V V _{EB} =4.0V I _C =10µA I _C =1.0mA, I _B =1.0mA I _C =10mA, I _B =1.0mA V _{CE} =1.0V, I _C =0.1mA V _{CE} =1.0V, I _C =1.0mA V _{CE} =1.0V, I _C =1.0mA V _{CE} =5.0V, I _C =10mA V _{CB} =5.0V, I _C =10mA, f=100MHz V _{CB} =5.0V, I _C =0, f=140kHz V _{CB} =0.5V, I _C =10mA, I _B =1.0mA	CHARACTERISTICS PER TRANSISTOR: (T _A =25 TEST CONDITIONS MIN V _{CB} =30V V _{EB} =4.0V I _C =10μA 40 I _C =1.0mA 40 I _C =10mA, I _B =1.0mA I _C =10mA, I _B =1.0mA V _{CE} =1.0V, I _C =0.1mA 40 V _{CE} =1.0V, I _C =1.0mA 60 V _{CE} =1.0V, I _C =10mA 75 V _{CE} =20V, I _C =10mA, f=100MHz 200 V _{CB} =5.0V, I _C =0, f=140kHz V _{BE} =0.5V, I _C =10mA, I _B =1.0mA	CHARACTERISTICS PER TRANSISTOR: (T _A =25°C) TEST CONDITIONS V _B =30V V _{EB} =4.0V I _C =10μA I _C =1.0mA I _C =10μA I _C =10mA, I _B =1.0mA I _C =10mA, I _B =1.0mA V _C E=1.0V, I _C =0.1mA V _C E=1.0V, I _C =1.0mA V _C E=1.0V, I _C =10mA V _C E=20V, I _C =10mA, f=100MHz V _C E=5.0V, I _C =0, f=140kHz V _C E=0.5V, I _C =0, f=140kHz	CHARACTERISTICS PER TRANSISTOR: (T _A =25°C) TEST CONDITIONS V _{CB} =30V V _{EB} =4.0V I _C =10μA I _C =1.0mA I _C =1.0mA I _C =10mA, I _B =1.0mA I _C =10mA, I _B =1.0mA V _{CE} =1.0V, I _C =0.1mA V _{CE} =1.0V, I _C =1.0mA V _{CE} =1.0V, I _C =10mA V _{CE} =1.0V, I _C =10mA V _{CE} =5.0V, I _C =10mA, I _E =10mHz V _{CB} =5.0V, I _C =0, f=140kHz V _{BE} =0.5V, I _C =10mA, I _B =1.0mA 43

MPQ3906

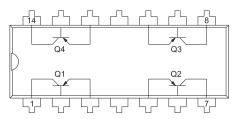
PNP SILICON QUAD TRANSISTOR



TO-116 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



LEAD CODE:

1) Collector Q1 2) Base Q1 3) Emitter Q1

8) Collector Q3 9) Base Q3 10) Emitter Q3

4) No Connection 11) No Connection 5) Emitter Q2 6) Base Q2

7) Collector Q2

12) Emitter Q4 13) Base Q4 14) Collector Q4

MARKING: FULL PART NUMBER

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	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), D2V							

TO-116 (REV: R3)

R1 (4-December 2012)

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).
- If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

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