MPQ3904

SILICON NPN QUAD TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPQ3904 is comprised of four independent silicon NPN 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}	60	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	6.0	V
Continuous Collector Current	I _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 _J , T _{sta}	-65 to +150	°C

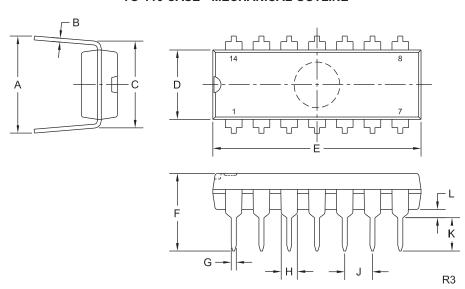
		o ora			
ELECTRICAL SYMBOL ICBO	CHARACTERISTICS PER TRANS TEST CONDITIONS V _{CB} =40V	SISTOR: (T _A =25 MIN	5°C) TYP	MAX 50	UNITS nA
I _{EBO}	V _{EB} =4.0V			50	nA
BV _{CBO}	I _C =10μA	60			V
BV _{CEO}	I _C =1.0mA	40			V
BV_{EBO}	I _E =10μA	6.0			V
V _{CE} (SAT)	I _C =10mA, I _B =1.0mA			0.20	V
V _{BE} (SAT)	I _C =10mA, I _B =1.0mA			0.85	V
h _{FE}	V _{CE} =1.0V, I _C =0.1mA	30			
h_{FE}	V _{CE} =1.0V, I _C =1.0mA	50			
hFE	V _{CE} =1.0V, I _C =10mA	75			
f_{T}	V_{CE} =20V, I_{C} =10mA, f=100MHz	250			MHz
C_{ob}	V_{CB} =5.0V, I_{E} =0, f=140kHz			4.0	pF
C_{ib}	V_{EB} =0.5V, I_{C} =0, f=140kHz			12	pF
ton	V_{BE} =0.5V, I_{C} =10mA, I_{B1} =1.0mA		37		ns
t _{off}	I _C =10mA, I _{B1} =I _{B2} =1.0mA		136		ns

MPQ3904

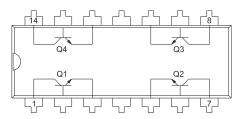
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TO-116 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



LEAD CODE:

Collector Q1
Base Q1
Emitter Q1
No Connection

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

4) No Connection 5) Emitter Q2 6) Base Q2 11) No Connection 12) Emitter Q4 13) Base Q4

7) Collector Q2 14) Collector Q4

DIMENSIONS							
	INCHES		MILLIMETERS				
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			
Е	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 (REV: R3)

MARKING: FULL PART NUMBER

R2 (25-September 2018)

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

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

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