

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.

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!



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MPQ7053

SILICON NPN/PNP COMPLEMENTARY QUAD TRANSISTOR

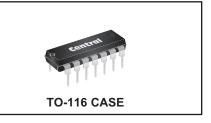


www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPQ7053 type is comprised of two independent silicon NPN transistors and two independent silicon PNP transistors mounted in a 14-pin DIP, designed for general purpose amplifier and switching applications.

MARKING: FULL PART NUMBER



SYMBOL TEST CONDITIONS	SISTOR: (T _A =25°0 MIN	MAX	UNITS
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Power Dissipation (total package)	P_{D}	1.7	W
Power Dissipation (per transistor)	P_{D}	750	mW
Continuous Collector Current	I _C	500	mA
Emitter-Base Voltage	V_{EBO}	5.0	V
Collector-Emitter Voltage	V_{CEO}	250	V
MAXIMUM RATINGS: (T _A =25°C) Collector-Base Voltage	SYMBOL V _{CBO}	250	UNITS V

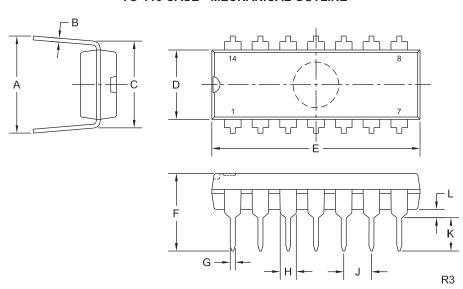
ELECTRICAL	CHARACTERISTICS PER TRANSIS	TOR : (T _A =25°C)		
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =180V		250	nA
I _{EBO}	V _{EB} =3.0V		100	nA
BV _{CBO}	I _C =100μA	250		V
BVCEO	I _C =1.0mA	250		V
BV _{EBO}	I _E =100μA	5.0		V
V _{CE(SAT)}	I _C =20mA, I _B =2.0mA		0.70	V
V _{BE(SAT)}	I_C =20mA, I_B =2.0mA		0.90	V
hFE	V_{CE} =10V, I_{C} =1.0mA	25		
h _{FE}	V_{CE} =10V, I_{C} =10mA	35		
hFE	V_{CE} =10V, I_{C} =30mA	25		
f _T	V_{CE} =20V, I_{C} =10mA, f=100MHz	50		MHz
C _{ob}	V_{CB} =20V, I_E =0, f=1.0MHz		6.0	pF
C _{ib}	V_{EB} =3.0V, I_C =0, f=1.0MHz (NPN)		50	pF
C_{ib}	V_{EB} =3.0V, I_{C} =0, f=1.0MHz (PNP)		75	pF

MPQ7053

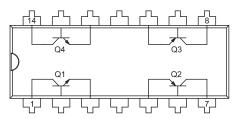
SILICON NPN/PNP COMPLEMENTARY QUAD TRANSISTOR



TO-116 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



LEAD CODE:

Collector Q1
Base Q1
Emitter Q1
No Connection
Emitter Q2

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			
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			
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			
Ĺ	0.015	-	0.4	-			

TO-116 (REV: R3)

MARKING: FULL PART NUMBER

R0 (10-March 2014)

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

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