



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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CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

MPQ3725

NPN SILICON QUAD TRANSISTOR

JEDEC TO-116 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR MPQ3725 type is comprised of four independent silicon transistors mounted in a 14 PIN-DIP case, designed for core driver applications.

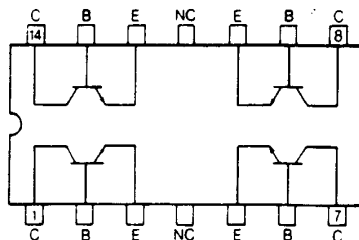
MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNIT
Collector-Base Voltage	V _{CES}	60	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	5.0	V
Collector Current	I _C	1.0	A
Power Dissipation (each transistor)	P _D	1.0	W
Power Dissipation (total package)	P _D	2.5	W
Operating and Storage Junction Temperature	T _J , T _{STG}	-65 TO +150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I _{CBO}	V _{CB} =40V		500	nA
BV _{CES}	I _C =100μA	60		V
BV _{CEO}	I _C =10mA	40		V
BV _{EBO}	I _E =10μA	5.0		V
V _{CE(SAT)}	I _C =500mA, I _B =50mA	-	0.45	V
V _{BE(SAT)}	I _C =500mA, I _B =50mA	0.80	1.0	V
h _{FE}	V _{CE} =1.0V, I _C =100mA	35	200	
h _{FE}	V _{CE} =2.0V, I _C =500mA	25	-	
f _T	V _{CE} =10V, I _C =50mA, f=100MHz	250		MHz
t _{ON}	V _{BE(OFF)} =3.8V, I _C =500mA, I _{B1} =50mA		35	ns
t _{OFF}	I _C =500mA, I _{B1} =I _{B2} =50mA		60	ns
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz		10	pF
C _{ib}	V _{EB} =0.5V, I _C =0, f=1.0MHz		80	pF

CONNECTION DIAGRAM



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 quick 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).

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