Data Sheet MPQ3725 NPN SILICON QUAD TRANSISTOR conductor Corp. JEDEC TO-116 CASE 145 Adams Ave., Hauppauge, NY 11788 USA Phone (516) 435-1110 FAX (516) 435-1824 Manufacturers of World Class Discrete Semiconductors

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.

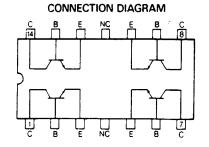
<u>MAXIMUM RATINGS</u> $(T_A=25^{\circ}C)$

5em

	SYMBOL		UNIT
Collector-Base Voltage	VCES	60	٧
Collector-Emitter Voltage	VCEO	40	V
Emitter-Base Voltage	VEBO	5.0	V
Collector Current	I _C	1.0	А
Power Dissipation (each transistor)	PD	1.0	W
Power Dissipation (total package)	PD	2.5	W
Operating and Storage Junction Temperature	TJ, ^T STG	-65 TO +150	°C

ELECTRICAL CHARACTERISTICS (TA=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
СВО	V _{CB} =40V		500	nA
BVCES	I _C =100μA	60		V
BVCEO	$I_{c} = 10 \text{ mA}$	40		V
BVEBO	Ι _Ε =10μΑ	5.0		V
VCE(SAT)	I _C =500mA, I _B =50mA	-	0.45	V
V _{BE} (SAT)	$I_{C}=500 \text{mA}$, $I_{B}=50 \text{mA}$	0.80	1.0	V
hFE	$V_{CE}=1.0V, I_{C}=100mA$	35	200	
hfe	$V_{CE}=2.0V, I_{C}=500mA$	25	-	
fT	$V_{CE}=10V$, $I_{C}=50mA$, f=100MHz	250		MHz
ton	VBE(OFF)=3.8V, 1 _C =500mA, 1 _{B1} =50mA		35	ns
^t OFF	I _C =500mÁ, I _{B1} =1 _{B2} =50mA		60	ns
С _{ор}	V _{CB} =10V, I _E =0, f=1.0MHz		10	р F
С _{іЬ}	$V_{EB}=0.5V$, $I_{C}=0$, f=1.0MHz		80	рF



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 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

ss your design challenges.

· Custom product packing

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

Custom bar coding for shipments

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

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Product End of Life Notification

PDN ID:	PDN01166
Notification Date:	3/11/21
Last Buy Date:	9/11/21
Last Shipment Date	3/11/22

Summary: The CP337V wafer process is discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Replacement	_
CP337V-2N3725-CT	N/A	
CP337V-2N3725-CT20	N/A	
CP337V-2N4013-CT20	N/A	
MPQ3725	N/A	
MPQ3725A	N/A	
2N3725	N/A	
2N3725A	N/A	
2N4013	N/A	
2N4014	N/A	

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.