

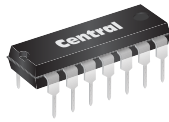
MPQ7093
SILICON
HIGH VOLTAGE
QUAD PNP TRANSISTOR



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPQ7093 is comprised of four independent PNP silicon transistors mounted in a 14-pin DIP, designed for high voltage amplifier applications.



TO-116 CASE

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Collector-Base Voltage	V_{CBO}	250	V
Collector-Emitter Voltage	V_{CEO}	250	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	I_C	500	mA
Power Dissipation (per transistor)	P_D	750	mW
Power Dissipation (total package)	P_D	1700	mW
Power Dissipation ($T_C=25^\circ\text{C}$) (total package)	P_D	3.0	W
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$

SYMBOL

V_{CBO}	250	V
V_{CEO}	250	V
V_{EBO}	5.0	V
I_C	500	mA
P_D	750	mW
P_D	1700	mW
P_D	3.0	W
T_J, T_{stg}	-65 to +150	$^\circ\text{C}$

UNITS

ELECTRICAL CHARACTERISTICS PER TRANSISTOR: ($T_A=25^\circ\text{C}$)

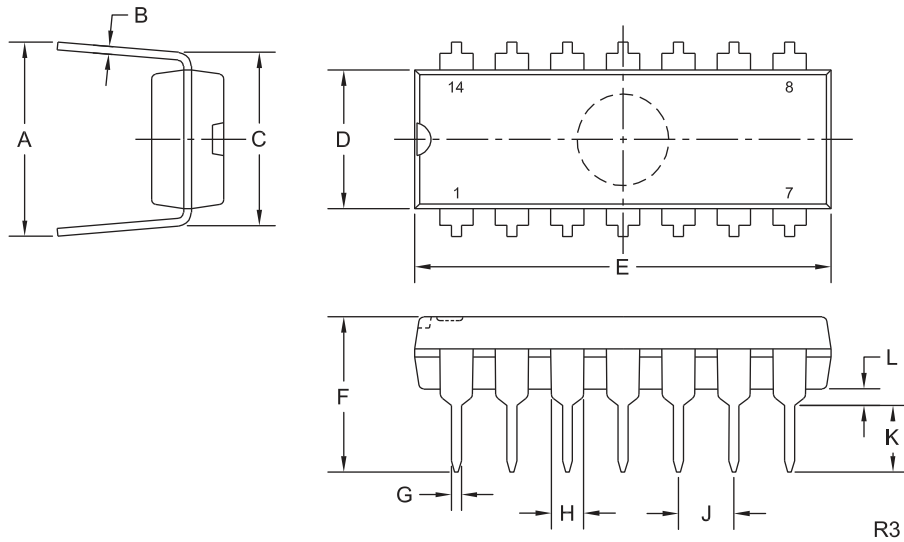
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{CBO}	$V_{CB}=180\text{V}$			250	nA
I_{EBO}	$V_{EB}=3.0\text{V}$			100	nA
BV_{CBO}	$I_C=100\mu\text{A}$	250			V
BV_{CEO}	$I_C=1.0\text{mA}$	250			V
BV_{EBO}	$I_E=100\mu\text{A}$	5.0			V
$V_{CE(SAT)}$	$I_C=20\text{mA}, I_B=2.0\text{mA}$			0.5	V
$V_{BE(SAT)}$	$I_C=20\text{mA}, I_B=2.0\text{mA}$			0.9	V
h_{FE}	$V_{CE}=10\text{V}, I_C=1.0\text{mA}$	25			
h_{FE}	$V_{CE}=10\text{V}, I_C=10\text{mA}$	35			
h_{FE}	$V_{CE}=10\text{V}, I_C=30\text{mA}$	25			
f_T	$V_{CE}=20\text{V}, I_C=10\text{mA}, f=100\text{MHz}$	50			MHz
C_{ob}	$V_{CB}=20\text{V}, I_E=0, f=1.0\text{MHz}$			5.0	pF
C_{ib}	$V_{EB}=3.0\text{V}, I_C=0, f=1.0\text{MHz}$			75	pF

R0 (14-June 2013)

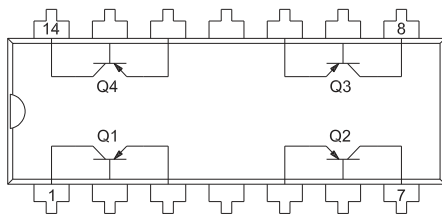
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TO-116 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



LEAD CODE:

- | | |
|------------------|-------------------|
| 1) Collector Q1 | 8) Collector Q3 |
| 2) Base Q1 | 9) Base Q3 |
| 3) Emitter Q1 | 10) Emitter Q3 |
| 4) No Connection | 11) No Connection |
| 5) Emitter Q2 | 12) Emitter Q4 |
| 6) Base Q2 | 13) Base Q4 |
| 7) Collector Q2 | 14) Collector Q4 |

MARKING: FULL PART NUMBER

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.310	0.390	7.9	9.9
B	0.008	0.014	0.2	0.4
C	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
H	0.050		1.3	
J	0.100		2.5	
K	0.125	0.150	3.2	3.8
L	0.015	-	0.4	-

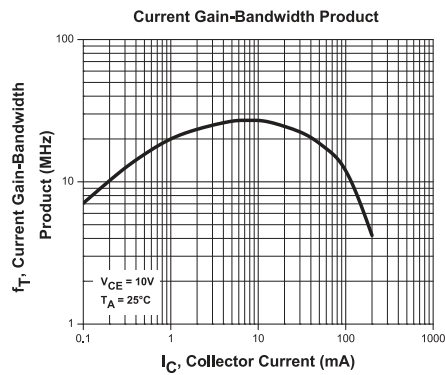
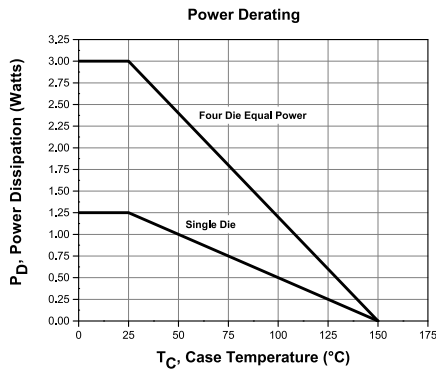
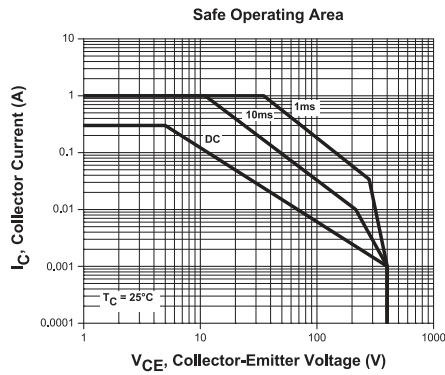
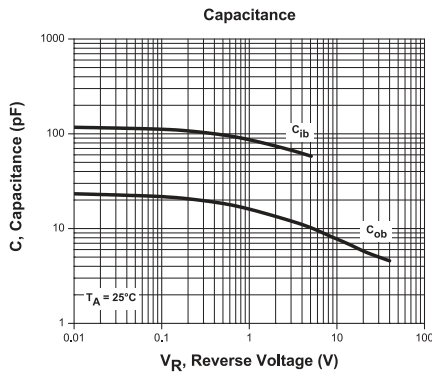
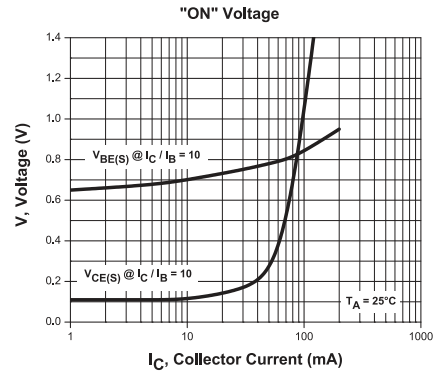
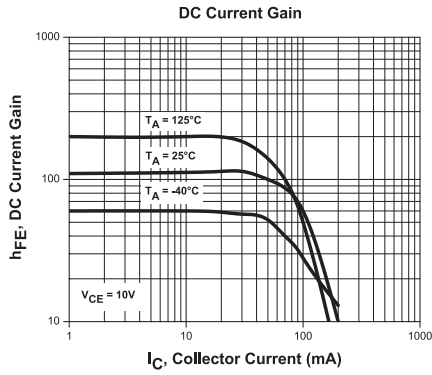
TO-116 (REV: R3)

R0 (14-June 2013)

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TYPICAL ELECTRICAL CHARACTERISTICS



R0 (14-June 2013)

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).

CONTACT US

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Worldwide Distributors:
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For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms



http://www.centrasemi.com

Product End of Life Notification

PDN ID:	PDN01169
Notification Date:	3/26/21
Last Buy Date:	9/26/21
Last Shipment Date	3/26/22

Summary: The devices below manufactured in the TO-116 case are discontinued and now classified as End of Life (EOL); last time buy orders will be NCNR. Note: MPQ2222, MPQ222A, and MPQ3904 are NOT being discontinued and remain active devices.

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.**

<u>Central Part Number</u>	<u>Replacement</u>
MPQ2369	N/A
MPQ2483	N/A
MPQ2484	N/A
MPQ2907	N/A
MPQ2907A	N/A
MPQ3467	N/A
MPQ3762	N/A
MPQ3798	N/A
MPQ3799	N/A
MPQ3906	N/A
MPQ6002	N/A
MPQ6100A	N/A
MPQ6502	N/A
MPQ6700	N/A
MPQ7043	N/A
MPQ7053	N/A
MPQ7093	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@centrasemi.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.