

SILICON PNP POWER TRANSISTORS

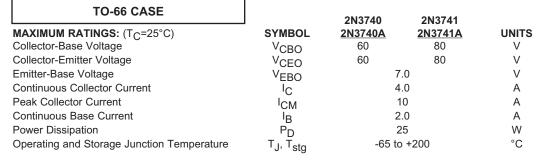


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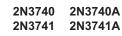
# DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3740 series devices are silicon PNP power transistors manufactured by the epitaxial base process designed for power amplifier and medium speed switching applications.

## MARKING: FULL PART NUMBER



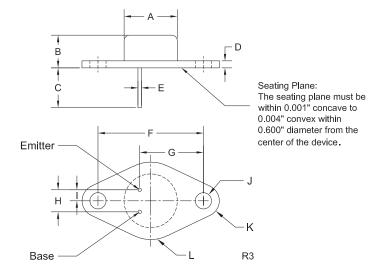
	AL CHARACTERISTICS: (T <sub>C</sub> =25°C unless otherwise not			
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICEV	V <sub>CE</sub> =Rated V <sub>CEO</sub> , V <sub>BE</sub> =1.5V (2N3740, 2N3741)		100	μΑ
ICEV	V <sub>CE</sub> =Rated V <sub>CEO</sub> , V <sub>BE</sub> =1.5V (2N3740A, 2N3741A)		100	nA
ICEV	V <sub>CE</sub> =40V, V <sub>BE</sub> =1.5V, T <sub>C</sub> =150°C (2N3740)		1.0	mA
ICEV	V <sub>CE</sub> =40V, V <sub>BE</sub> =1.5V, T <sub>C</sub> =150°C (2N3740A)		0.5	mA
ICEV	V <sub>CE</sub> =60V, V <sub>BE</sub> =1.5V, T <sub>C</sub> =150°C (2N3741)		1.0	mA
ICEV	V <sub>CE</sub> =60V, V <sub>BE</sub> =1.5V, T <sub>C</sub> =150°C (2N3741A)		0.5	mA
ICBO	V <sub>CB</sub> =Rated V <sub>CBO</sub> (2N3740, 2N3741)		100	μA
ICBO	V <sub>CB</sub> =Rated V <sub>CBO</sub> (2N3740A, 2N3741A)		100	nA
ICEO	V <sub>CE</sub> =40V (2N3740)		1.0	mA
ICEO	V <sub>CE</sub> =40V (2N3740A)		1.0	μA
ICEO	V <sub>CE</sub> =60V (2N3741)		1.0	mA
ICEO	V <sub>CE</sub> =60V (2N3741A)		1.0	μA
IEBO	V <sub>EB</sub> =7.0V (2N3740, 2N3741)		0.5	mA
IEBO	V <sub>EB</sub> =7.0V (2N3740A, 2N3741A)		100	nA
	I <sub>C</sub> =100mA (2N3740, 2N3740A)	60		V
BVCEO	I <sub>C</sub> =100mA (2N3741, 2N3741A)	80		V
	I <sub>C</sub> =1.0A, I <sub>B</sub> =125mA		0.6	V
V <sub>BE(ON)</sub>	V <sub>CE</sub> =1.0V, I <sub>C</sub> =250mA		1.0	V
h <sub>FE</sub>	V <sub>CE</sub> =1.0V, I <sub>C</sub> =100mA	40		
h <sub>FE</sub>	V <sub>CE</sub> =1.0V, I <sub>C</sub> =250mA	30	200	
h <sub>FE</sub>	V <sub>CE</sub> =1.0V, I <sub>C</sub> =500mA	20		
hFE	V <sub>CE</sub> =1.0V, I <sub>C</sub> =1.0A	10		
h <sub>fe</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =50mA, f=1.0kHz	25		
fT	V <sub>CF</sub> =10V, I <sub>C</sub> =100mA, f=1.0MHz	4.0		MHz
C <sub>ob</sub>	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=100kHz		100	pF
			R2 (2-S	eptember 2014)





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## **TO-66 CASE - MECHANICAL OUTLINE**



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.470	0.500	11.94	12.70		
В	0.250	0.340	6.35	8.64		
С	0.360	-	9.14	-		
D	0.050	0.075	1.27	1.91		
E (DIA)	0.028	0.034	0.71	0.86		
F	0.956	0.964	24.28	24.48		
G	0.570	0.590	14.48	14.99		
Н	0.190	0.210	4.83	5.33		
ļ	0.093	0.107	2.36	2.72		
J (DIA)	0.142	0.152	3.61	3.86		
K (RAD)	0.141		3.58			
L (RAD)	0.345		8.76			
			TO-66 (I	REV:R3)		

MARKING: FULL PART NUMBER

R2 (2-September 2014)

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## 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 guick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

· Custom product packing

Custom bar coding for shipments

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

## REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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 www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

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Product End of Life Notification

PDN ID:	PDN01247
Notification Date:	9/01/22
Last Buy Date:	
Last Shipment Date	9/01/23

Summary: The following transistors are discontinued and now classified as of 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 Portfolio Management. 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	Suggested Replacement
BCY79-VIII	N/A
CEN853	N/A
CZT32C BK	N/A
CZT32C TR	N/A
2N3583	N/A
2N3584	N/A
2N3585	N/A
2N3738	N/A
2N3740	N/A
2N3741	N/A
2N3741A	N/A
2N4299	N/A
2N4900	N/A
2N6107	N/A
2N6317	N/A
2N6318	N/A
2N6467	N/A
2N6468	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. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

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.