

# Small Signal Transistors

## TO-46 Case



TYPE NO.	DESCRIPTION	BV <sub>CB0</sub>	BV <sub>CEO</sub>	BV <sub>EBO</sub>	I <sub>CB0</sub> @	V <sub>CB</sub>	h <sub>FE</sub>		@ I <sub>C</sub>	@ V <sub>CE</sub>	V <sub>CE</sub> (SAT) @ I <sub>C</sub>		C <sub>ob</sub>	f <sub>T</sub>	NF	t <sub>off</sub>
		(V)	(V)	(V)	(μA)	(V)			(mA)	(V)	(V)	(mA)	(pF)	(MHz)	(dB)	(ns)
		MIN	MIN	MIN	***I <sub>CEV</sub>		MIN	MAX			MAX		MAX	MIN	MAX	MAX
2N2604	PNP LOW NOISE	60	45	6.0	0.01	45	40	120	0.01	5.0	0.5	10	6.0	30	4.0	--
2N2605	PNP LOW NOISE	60	45	6.0	0.01	45	100	300	0.01	5.0	0.5	10	6.0	30	3.0	--
2N3485*	PNP AMPL/SWITCH	60	40	5.0	0.02	50	40	120	150	10	1.6	500	8.0	200	--	180
2N3485A*	PNP AMPL/SWITCH	60	60	5.0	0.01	50	40	120	150	10	1.6	500	8.0	200	--	180
2N3486*	PNP AMPL/SWITCH	60	40	5.0	0.02	50	100	300	150	10	1.6	500	8.0	200	--	180
2N3486A*	PNP AMPL/SWITCH	60	60	5.0	0.01	50	100	300	150	10	1.6	500	8.0	200	--	180
2N3508	NPN SAT SWITCH	40	20	6.0	0.2	20	40	120	10	1.0	0.45	100	4.0	500	--	28
2N3509*	NPN SAT SWITCH	40	20	6.0	0.2	20	100	300	10	1.0	0.45	100	4.0	500	--	28
2N3647*	NPN SAT SWITCH	40	10	6.0	0.025**	10	25	150	150	1.0	0.6	300	4.0	350	--	25
2N3648*	NPN SAT SWITCH	40	15	6.0	0.025**	10	30	120	150	1.0	0.8	500	4.0	450	--	18
2N3673*	NPN AMPL/SWITCH	60	50	5.0	0.01	50	75	225	150	10	1.6	500	9.0	200	--	100
2N3736*	NPN SAT SWITCH	50	30	5.0	0.2**	25	30	120	1,000	1.5	0.9	1,000	9.0	250	--	60
2N3737*	NPN SAT SWITCH	75	50	5.0	0.2**	40	20	80	1,000	1.5	0.9	1,000	9.0	250	--	60
2N4449*	NPN AMPL/SWITCH	40	15	4.5	0.4	20	40	--	10	1.0	0.18	10	4.0	500	--	12
2N5581*	NPN AMPL/SWITCH	75	40	6.0	0.01	50	40	120	150	10	1.6	500	8.0	250	--	285
2N5582	NPN AMPL/SWITCH	75	40	6.0	0.01	50	100	300	150	10	1.6	500	8.0	300	--	285

\*Available on special order; please consult factory.

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

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

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### 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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### 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.centrasemi.com](http://www.centrasemi.com)

**Worldwide Field Representatives:**  
[www.centrasemi.com/wwreps](http://www.centrasemi.com/wwreps)

**Worldwide Distributors:**  
[www.centrasemi.com/wwdistributors](http://www.centrasemi.com/wwdistributors)

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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/terms)



<http://www.centrasemi.com>

# Product End of Life Notification

<b>PDN ID:</b>	PDN01013
<b>Notification Date:</b>	12/14/15
<b>Last Buy Date:</b>	6/14/16
<b>Last Shipment Date</b>	12/14/16

Summary: All transistors manufactured in the TO-46 package are 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 various 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 Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

<b>Central Part Number</b>	<b>Replacement</b>
2N2604	2N3963
2N2605	2N3963
2N3486	2N2907A
2N3486A	2N2907A
2N3508	2N2368
2N3509	2N2369A
2N5582	2N2222A

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](mailto: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.