

Small Signal Transistors

TO-92 Case (Continued)



TO-92



TO-92-18R

TYPE NO.	DESCRIPTION	LEAD CODE	V _{CBO}	V _{CEO}	V _{EBO}	I _{CBO} @	V _{CB}	h _{FE}		@ V _{CE}	@ I _C	V _{CE (SAT)} @ I _C		C _{ob}	f _T	NF	t _{off}
			(V)	(V)	(V)	(nA)	(V)			(V)	(mA)	(V)	(mA)	(pF)	(MHz)	(dB)	
			MIN	*V _{CES} MIN	MAX	*I _{CES} *I _{CEV} MAX		MIN	*h _{FE} (1kHz) MAX					MAX	MIN	MAX	MAX
2N5812	NPN AMPL/SWITCH	CBE†	35	25	5.0	100	25	150	500	2.0	2.0	0.75	500	15	135	--	--
2N5813	PNP AMPL/SWITCH	CBE†	35	25	5.0	100	25	150	500	2.0	2.0	0.75	500	15	135	--	--
2N5816	NPN AMPL/SWITCH	CBE†	50	40	5.0	100	25	100	200	2.0	2.0	0.75	500	15	120	--	--
2N5817	PNP AMPL/SWITCH	CBE†	50	40	5.0	100	25	100	200	2.0	2.0	0.75	500	15	120	--	--
2N5818	NPN AMPL/SWITCH	CBE†	50	40	5.0	100	25	150	300	2.0	2.0	0.75	500	15	135	--	--
2N5819	PNP AMPL/SWITCH	CBE†	50	40	5.0	100	25	150	300	2.0	2.0	0.75	500	15	135	--	--
2N5822	NPN AMPL/SWITCH	CBE†	70	60	5.0	100	25	100	200	2.0	2.0	0.75	500	15	120	--	--
2N5823	PNP AMPL/SWITCH	CBE†	70	60	5.0	100	25	100	200	2.0	2.0	0.75	500	15	120	--	--
2N5830	NPN HIGH VOLTAGE	EBC	120	100	5.0	50	100	80	500	5.0	10	0.25	50	4.0	100	--	--
2N5831	NPN HIGH VOLTAGE	EBC	160	140	5.0	50	120	80	500	5.0	10	0.25	50	4.0	100	--	--
2N5961	NPN LOW NOISE	EBC	60	60	8.0	2.0	60	170	700	5.0	10	0.20	10	4.0	100	3.0	--
2N5962	NPN LOW NOISE	EBC	45	45	8.0	2.0	45	600	1,400	5.0	10	0.20	10	4.0	100	3.0	--
2N5963	NPN LOW NOISE	EBC	30	30	8.0	2.0	30	1,200	2,000	5.0	10	0.20	10	4.0	150	3.0	--
2N6076	PNP LOW NOISE	ECB	25	25	5.0	100	25	100	500	10	10	0.25	10	13	200*	--	--
2N6426	NPN DARLINGTON	EBC	40	40	12	50	30	20,000	200,000	5.0	500	1.50	500	7.0	150	10	--
2N6427	NPN DARLINGTON	EBC	40	40	12	50	30	14,000	140,000	5.0	500	1.50	500	7.0	130	10	--
2N6515	NPN HIGH VOLTAGE	EBC	250	250	6.0	50	150	45	220	10	50	1.0	50	6.0	40	--	--
2N6516	NPN HIGH VOLTAGE	EBC	300	300	6.0	50	200	40	200	10	50	1.0	50	6.0	40	--	--
2N6517	NPN HIGH VOLTAGE	EBC	350	350	6.0	50	250	20	100	10	50	1.0	50	6.0	40	--	--
2N6518	PNP HIGH VOLTAGE	EBC	250	250	5.0	50	150	45	220	10	50	1.0	50	6.0	40	--	--
2N6519	PNP HIGH VOLTAGE	EBC	300	300	5.0	50	200	40	200	10	50	1.0	50	6.0	40	--	--
2N6520	PNP HIGH VOLTAGE	EBC	350	350	5.0	50	250	20	100	10	50	1.0	50	6.0	40	--	--
BCX38A	NPN DARLINGTON	EBC	80	60	10	100	60	1,000	--	5.0	500	1.25	800	--	--	--	--
BCX38B	NPN DARLINGTON	EBC	80	60	10	100	60	4,000	--	5.0	500	1.25	800	--	--	--	--
BCX38C	NPN DARLINGTON	EBC	80	60	10	100	60	10,000	--	5.0	500	1.25	800	--	--	--	--
GES6014	NPN AMPL/SWITCH	EBC	70	60	5.0	10	25	100	300	1.0	10	0.50	500	10	105	5.0	400
MPS404A	PNP CHOPPER	EBC	40	35	25	100	10	100	400	0.15	12	0.15	12	40	--	--	--
MPS650	NPN HIGH CURRENT	EBC	60	40	5.0	100	60	40	--	2.0	2,000	0.50	2,000	--	75	--	--
MPS651	NPN HIGH CURRENT	EBC	80	60	5.0	100	80	40	--	2.0	2,000	0.50	2,000	--	75	--	--
MPS750	PNP HIGH CURRENT	EBC	60	40	5.0	100	60	40	--	2.0	2,000	0.50	2,000	--	75	--	--
MPS751	PNP HIGH CURRENT	EBC	80	60	5.0	100	80	40	--	2.0	2,000	0.50	2,000	--	75	--	--
MPS3392	NPN AMPL/SWITCH	EBC	25	25	5.0	100	18	150	300	4.5	2.0	--	--	10	--	--	--
MPS3395	NPN AMPL/SWITCH	EBC	25	25	5.0	100	18	150	500	4.5	2.0	--	--	10	--	--	--
MPS3396	NPN AMPL/SWITCH	EBC	25	25	5.0	100	18	90	500	4.5	2.0	--	--	10	--	--	--
MPS3397	NPN AMPL/SWITCH	EBC	25	25	5.0	100	18	55	500	4.5	2.0	--	--	10	--	--	--
MPS3398	NPN AMPL/SWITCH	EBC	25	25	5.0	100	18	55	800	4.5	2.0	--	--	10	--	--	--
MPS3415	NPN LOW NOISE	EBC	25	25	5.0	100	25	180	540	4.5	2.0	0.30	50	--	--	--	--
MPS3702	PNP AMPL/SWITCH	EBC	40	25	5.0	100	20	60	300	5.0	50	0.25	50	12	100	--	--
MPS3704	NPN AMPL/SWITCH	EBC	50	30	5.0	100	20	100	300	2.0	50	0.60	100	12	100	--	--
MPS3706	NPN AMPL/SWITCH	EBC	40	20	5.0	100	20	30	600	2.0	50	1.0	100	12	100	--	--
MPS3707	NPN LOW NOISE	EBC	30	30	6.0	100	20	100	400	5.0	0.10	1.0	10	4.0	--	5.0	--
MPS3708	NPN LOW NOISE	EBC	30	30	6.0	100	20	45	660	5.0	1.0	1.0	10	--	--	--	--

Central
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Devices are available lead formed,
See pages 216 thru 219 for details.
Also available in Ammopack or Tape & Reel,
See pages 230 thru 235 for details.
† TO-92-18R

(6-December 2004)

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



<https://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01269
Notification Date:	2/04/25
Last Buy Date:	8/04/25
Last Shipment Date	2/04/26

Summary: The following Small Signal transistors are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor 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
BCV72 BK	N/A
BCV72 TR	N/A
BCY58-VII	N/A
BCY59	N/A
BCY59-VII	N/A
BC107A	N/A
BC848A TR	N/A
CMPT930 BK	N/A
CMPT930 TR	N/A
MPS3393	N/A
MPS3707	N/A
MPS3710	N/A
MPS6520	N/A
MPS6520 APM	N/A
MPS6520 TRE	N/A
PE4001	N/A
PE4001-18	N/A
PN3565	N/A
PN3565 APM	N/A
PN3565 TRE	N/A
PN3565-18	N/A
PN930	N/A
2N2923	N/A
2N2923 APM	N/A
2N2923 TRE	N/A
2N2924	N/A
2N2924 APM	N/A
2N2924 TRE	N/A
2N2926	N/A
2N2926 APM	N/A
2N2926 TRE	N/A
2N3392	N/A
2N3392 APM	N/A
2N3392 TRE	N/A
2N3393	N/A
2N3393 APM	N/A

*** CONTINUED ***

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor 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.



<https://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01269
Notification Date:	2/04/25
Last Buy Date:	8/04/25
Last Shipment Date	2/04/26

*** CONTINUED FROM PRIOR PAGE ***

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

Central Part Number	Suggested Replacement
2N3393 TRE	N/A
2N3397	N/A
2N3414	N/A
2N3416	N/A
2N3416 APM	N/A
2N3416 APP	N/A
2N3416 TRA	N/A
2N3416 TRE	N/A
2N3709	N/A
2N5172	N/A
2N5172 APM	N/A
2N5172 TRE	N/A
2N5209	N/A
2N5209 APM	N/A
2N5209 TRE	N/A
2N5961	N/A
2N5961 APM	N/A
2N5961 TRE	N/A
2N930	N/A
2N930A	N/A
2N930B	N/A
2SC1815	N/A
2SC1815 APM	N/A
2SC1815 TRE	N/A
2SC1815-BL	N/A
2SC1815-GR	N/A
2SC1815-O	N/A
2SC1815-Y	N/A
2SC1815-Y APM	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.centrasemi.com/submit-inquiry?type=ER> to submit an online inquiry.

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