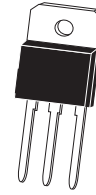


Power Transistors

TO-218 Case* (Continued)

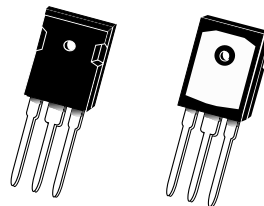
General Purpose Amplifier



TYPE NO.		I_C	P_D	BV_{CBO}	BV_{CEO}	h_{FE}		@ I_C @ V_{CE}		$V_{CE(SAT)}$	@ I_C	f_T
NPN	PNP	(A)	(W)	(V) MIN	(V) MIN	MIN	MAX	(A)	(V)	(V) MAX	(A)	(MHz) **TYP MIN
BDV65	BDV64	12	125	60	60	1,000	--	5.0	4.0	2.0	5.0	60**
BDV65A	BDV64A	12	125	80	80	1,000	--	5.0	4.0	2.0	5.0	60**
BDV65B	BDV64B	12	125	100	100	1,000	--	5.0	4.0	2.0	5.0	60**
BDW83A	BDW84A	15	130	60	60	750	20,000	6.0	3.0	2.5	6.0	--
BDW83B	BDW84B	15	130	80	80	750	20,000	6.0	3.0	2.5	6.0	--
BDW83C	BDW84C	15	130	100	100	750	20,000	6.0	3.0	2.5	6.0	--
TIP33A	TIP34A	10	80	60	60	20	100	3.0	4.0	1.0	3.0	3.0
TIP33B	TIP34B	10	80	80	80	20	100	3.0	4.0	1.0	3.0	3.0
TIP33C	TIP34C	10	80	100	100	20	100	3.0	4.0	1.0	3.0	3.0
TIP35A	TIP36A	25	125	60	60	10	75	15	4.0	1.8	15	3.0
TIP35B	TIP36B	25	125	80	80	10	75	15	4.0	1.8	15	3.0
TIP35C	TIP36C	25	125	100	100	10	75	15	4.0	1.8	15	3.0
TIP140	TIP145	10	125	60	60	1,000	--	5.0	4.0	3.0	10	--
TIP141	TIP146	10	125	80	80	1,000	--	5.0	4.0	3.0	10	--
TIP142	TIP147	10	125	100	100	1,000	--	5.0	4.0	3.0	10	--
TIP3055	TIP2955	15	90	100	60	20	100	4.0	4.0	1.1	4.0	3.0

Shaded areas indicate Darlington.

*Devices are also available in TO-247 Case
(isolated mounting hole) on special order.



Top View

Bottom View

TO-247 Case

(6-December 2004)

Central
Semiconductor Corp.
www.centalsemi.com

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

Corporate Headquarters & Customer Support Team

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www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

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

Product End of Life Notification

PDN ID:	PDN01022 Rev:001
Notification Date:	4/07/17
Last Buy Date:	10/04/16
Last Shipment Date	4/04/17

Summary: All devices manufactured in the TO-218 package are discontinued and now classified as End of Life (EOL). Central is in the process of qualifying replacements for certain TO-218 devices in the TO-247 package; items with planned replacements are shown below. Rev:001 of PDN#01022, April 7, 2017 issued to remove TIP36C and TIP36C SL from the PDN to address market demand. Part numbers TIP36C and TIP36C SL are once again active devices.

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.

<u>Central Part Number</u>	<u>Replacement</u>
BDV64	N/A
BDV64A	N/A
BDV64B	N/A
BDV65	N/A
BDV65A	N/A
BDV65B	N/A
BDW83A	N/A
BDW83B	N/A
BDW83C	N/A
BDW84A	N/A
BDW84B	N/A
BDW84C	N/A
BUV47A	N/A
BU426	N/A
CEN1356	N/A
CQ218-45B	N/A
CQ218-45D	N/A
CQ218-45M	N/A
CQ218-45N	N/A
CQ218I-25B	N/A
CQ218I-25D	N/A
CQ218I-25M	N/A
CQ218I-25N	N/A
CQ218I-40B	N/A
CQ218I-40D	N/A
CQ218I-40M	N/A
CQ218I-40N	N/A
CS218-35B	N/A
CS218-35D	N/A
CS218-35M	N/A
CS218-35N	N/A
CS218-35P	N/A
CS218-35PB	N/A
CS218-55B	N/A
CS218-55D	N/A

*** CONTINUED ***

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.

Product End of Life Notification

PDN ID:	PDN01022 Rev:001
Notification Date:	4/07/17
Last Buy Date:	10/04/16
Last Shipment Date	4/04/17

*** CONTINUED FROM PRIOR PAGE ***

<u>Central Part Number</u>	<u>Replacement</u>
CS218-55M	N/A
CS218-55N	N/A
CS218-55P	N/A
CS218-55PB	N/A
CS218I-30B	N/A
CS218I-30D	N/A
CS218I-30M	N/A
CS218I-30N	N/A
CS218I-30P	N/A
CS218I-30PB	N/A
CS218I-50B	N/A
CS218I-50D	N/A
CS218I-50M	N/A
CS218I-50N	N/A
CS218I-50P	N/A
CS218I-50PB	N/A
TIP140	TIP142 TO-247 H
TIP141	TIP142 TO-247 H
TIP142	TIP142 TO-247 H
TIP145	TIP147 TO-247 H
TIP146	TIP147 TO-247 H
TIP147	TIP147 TO-247 H
TIP2955	N/A
TIP3055	N/A
TIP33A	TIP35C TO-247 H
TIP33B	TIP35C TO-247 H
TIP33C	TIP35C TO-247 H
TIP34A	TIP36C TO-247 H
TIP34B	TIP36C TO-247 H
TIP34C	TIP36C TO-247 H
TIP35A	TIP35C TO-247 H
TIP35B	TIP35C TO-247 H
TIP35C	TIP35C TO-247 H
TIP35C SL	TIP35C TO-247 H
TIP36	TIP36C TO-247 H
TIP36A	TIP36C TO-247 H
TIP36B	TIP36C TO-247 H
TIP36B SL	TIP36C TO-247 H

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.