Central M
Semiconductor Corp.
Central M
Semiconductor Corp.
145 Adams Avenue

Hauppauge, New York 11788

MJ2500 MJ2501 PNP MJ3000 MJ3001 NPN

SILICON COMPLEMENTARY TRANSISTORS
POWER DARLINGTON
10 AMPERES, 60-80 VOLTS

JEDEC TO-3 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR MJ2500, MJ3000 Series are medium power Complementary Silicon Darlington Transistors designed for general purpose amplifier applications as complementary output devices.

MAXIMUM RATINGS (T_C=25°C)

<u>s</u>	YMBOL	MJ2500 MJ3000	MJ2501 MJ3001	UNIT
Collector-Base Voltage	v _{сво}	60	80	٧
Collector-Emitter Voltage	VCEO	60	80	V
Emitter-Base Voltage	VEBO	5.0	5.0	V
Collector Current	Ic	10	10	Α
Base Current	i B	0.2	0.2	Α
Power Dissipation	P_D	150	150	W
Operating and Storage	-			
Junction Temperature	T _J , T _{Stq}	-55 TO	+200	.⊃C
Thermal Resistance, Junction TO Case	θJC	1.1	7	oc/w

ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise noted)

		MJ2 MJ3	-	MJ2 MJ3	-	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNIT
•	W					mA
CER	V_{CE} =Rated, RBE=1,000 Ω		1.0		1.0	mΑ
¹ CER	$V_{CE}=Rated$, $R_{BE}=1,000\Omega$, $T_{C}=150^{\circ}C$		5.0		5.0	mΑ
CEO	Vce=½XRated VcE		1.0		1.0	mΑ
I _{EBO}	V _{EB} =5.0V		2.0		2.0	n A
BYCEO	I _C =100mA	60		80		٧
VCE(SAT)	I _C =5.0A, I _B =20mA		2.0		2.0	V
VCE(SAT)	Ic=10A, IB=50mA		4.0		4.0	V
VBE (on)	VcE=3.0V, Ic=5.0A		3.0		3.0	٧
hfe	VCE=3.0V, IC=5.0A	1000		1000		-

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 guick 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

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

Worldwide Distributors:

www.centralsemi.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.centralsemi.com/terms

www.centralsemi.com (001)



PDN ID:	PDN01250
Notification Date:	2/10/23
Last Buy Date:	
Last Shipment Date	Stock Only

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. Orders can only be accepted for products with available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

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.



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Summary: The following power transistors are discontinued and now classified as of End of Life (EOL). NOTE: If inventory has been depleted, some devices may be available on special order; please contact your Central salesperson, manufacturer's rep, franchised distributor, or inquiry@centralsemi.com.

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
BDW51	N/A
BDW51A	N/A
BDW51B	N/A
BDW51C	N/A
BDW52	N/A
BDW52A	N/A
BDW52B	N/A
BDW52C	N/A
BDW94B	N/A
BDX20	N/A
BDX54	N/A
BDX54B	N/A
BDX54C	N/A
BDX54E	N/A
BDX85	N/A
BDX85A	N/A
BDX85B	N/A
BDX85C	N/A
BDX87	N/A
BDX87A	N/A
BDX87B	N/A
BDX87C	N/A
BDY90	N/A
BD135	N/A
BD135 SL	N/A
BD135-10 SL	N/A
BD135-16	N/A
BD135-16 SL	N/A
BD136	N/A
BD136-10	N/A
BD136-10 SL	N/A
BD136-16	N/A
BD136-16 SL	N/A
BD137	N/A
*** CONTINUED ***	

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Central Part Number	Suggested Replacement	
BD137-10	N/A	
BD137-10 SL	N/A	
BD137-16	N/A	
BD138	N/A	
BD138-10	N/A	
BD138-10 SL	N/A	
BD138-16	N/A	
BD138-16 SL	N/A	
BD139	N/A	
BD139-10	N/A	
BD139-10 SL	N/A	
BD139-16	N/A	
BD139-16 SL	N/A	
BD140	N/A	
BD140-10	N/A	
BD140-10 SL	N/A	
BD140-16	N/A	
BD140-16 SL	N/A	
BD157	N/A	
BD158	N/A	
BD159	N/A	
BD175	N/A	
BD176	N/A	
BD177	N/A	
BD178	N/A	
BD179	N/A	
BD180	N/A	
BD201	N/A	
BD204	N/A	
BD233	N/A	
BD234	N/A	
BD235	N/A	
BD236	N/A	
BD237	N/A	
BD238	N/A N/A	
BD238 SL	N/A N/A	
BD433	N/A N/A	
BD434		
	N/A	
BD437	N/A	
BD438	N/A	
BD439	N/A	
BD440	N/A	
BD441 * CONTINUED ***	N/A	

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Central Part Number	Suggested Replacement	
BD442	N/A	
BD537	N/A	
BD538	N/A	
BD675	N/A	
BD675A	N/A	
BD676	N/A	
BD676A	N/A	
BD676A SL	N/A	
BD677	N/A	
BD677A	N/A	
BD678	N/A	
BD678A	N/A	
BD679	N/A	
BD679A	N/A	
BD679A SL	N/A	
BD680	N/A	
BD680A	N/A	
BD680A SL	N/A	
BD681	N/A	
BD681 SL	N/A	
BD682	N/A	
BD682 SL	N/A	
BD683	N/A	
BD683 SL	N/A	
BD908	N/A	
BF457	N/A	
BF458	N/A	
BF459	N/A	
BF459 SL	N/A	
BF469	N/A N/A	
BF471	N/A N/A	
BF472	N/A N/A	
BUW34	N/A N/A	
BUW35	N/A	
BUW36	N/A	
BUW44	N/A	
BUW45	N/A	
BUW46	N/A	
BUX43	N/A	
BUX44	N/A	
BUX47	N/A	
BUX48	N/A	
BUX80	N/A	

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Central Part Number	Suggested Replacement
BUY69A	N/A
BUY69B	N/A
BUY69C	N/A
BU408	N/A
BU409	N/A
CEN1025	N/A
CEN1037	N/A
CEN1063	N/A
CEN1092	N/A
CEN1102	N/A
CEN1111	N/A
CEN1177	N/A
CEN1247	N/A
CEN1306	N/A
CEN1323	N/A
CEN1328	N/A
CEN1364 SL	N/A
CEN1378 SL	N/A
CEN1391	N/A
CEN1396	N/A
CEN1406	N/A
CEN1416	N/A
CEN1439	N/A
CEN1450	N/A
CEN496	N/A
CEN537	N/A
CEN591	N/A
CEN596	N/A
CEN644	N/A
CEN671	N/A
CEN698-1	N/A
CEN698-2	N/A
CEN774	N/A
CEN821	N/A
CEN844	N/A
CEN925	N/A
CEN951	N/A
CEN961	N/A
CEN972	N/A
CEN992	N/A
CM3441	N/A
CP166-BUP54-WN	N/A
CP230-CZT122-CT	CP260-TIP122-CT
* CONTINUED ***	

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Central Part Number	Suggested Replacement		
CP230-HTIP122-CM	N/A		
CP230-H2N6039-CM	N/A		
CP230-TIP122-CM	CP260-TIP122-CM		
CP230-TIP122-CT	CP260-TIP122-CT		
CP230-TIP122-CT20	N/A		
CP230-2N6039-CM	N/A		
CP230-2N6039-CT	N/A		
CP230-2N6039-WN	N/A		
CP630-CEN1263-WN	CP660-TIP127-WN		
CP630-CZT127-CT	CP660-TIP127-CT		
CP630-HTIP127-CM	N/A		
CP630-TIP127-CT	CP660-TIP127-CT		
CP630-TIP127-WN	CP660-TIP127-WN		
CP630-2N6036-CT	N/A		
CZT122 BK	N/A		
CZT122 DR CZT122 TR	N/A		
CZT122 TK CZT127 BK	N/A		
CZT127 TR	N/A		
CZT31C BK	N/A		
CZT31C TR	N/A		
D44C12	N/A		
D44E1	N/A		
D44E3	N/A		
D45E3	N/A		
D45H8	N/A		
MJE13003	N/A		
MJE13003 SL	N/A		
MJE13005	N/A		
MJE13005 SL	N/A		
MJE13006	N/A		
MJE13008	N/A		
MJE13009	N/A		
MJE15030	N/A		
MJE15031	N/A		
MJE170	N/A		
MJE171	N/A		
MJE172	N/A		
MJE180	N/A		
MJE181	N/A		
MJE182	N/A		
MJE200	N/A		
MJE210	N/A		
MJE220	N/A		
*** CONTINUED ***			

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Central Part Number	Suggested Replacement	
MJE221	N/A	
MJE222	N/A	
MJE223	N/A	
MJE224	N/A	
MJE225	N/A	
MJE230	N/A	
MJE231	N/A	
MJE232	N/A	
MJE233	N/A	
MJE234	N/A	
MJE235	N/A	
MJE2360T	N/A	
MJE240	N/A	
MJE241	N/A	
MJE242	N/A	
MJE243	N/A	
MJE244	N/A	
MJE250	N/A	
MJE250 MJE251	N/A	
MJE251 MJE252	N/A	
MJE253	N/A	
MJE254	N/A	
MJE2801T	N/A	
MJE2901T	N/A	
MJE2955T	N/A	
MJE340	N/A	
MJE341	N/A	
MJE344	N/A	
MJE344 SL	N/A	
MJE3440	N/A	
MJE350	N/A	
MJE370	N/A	
MJE371	N/A	
MJE520	N/A	
MJE521	N/A	
MJE700	N/A	
MJE701	N/A	
MJE702	N/A	
MJE703	N/A	
MJE710	N/A	
MJE711	N/A	
MJE712	N/A	
MJE720	N/A	
** CONTINUED ***		

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Central Part Number	Suggested Replacement	
MJE721	N/A	
MJE722	N/A	
MJE800	N/A	
MJE800T	N/A	
MJE801	N/A	
MJE801T	N/A	
MJE802	N/A	
MJE802T	N/A	
MJE803	N/A	
MJE803T	N/A	
MJ1000	N/A	
MJ1001	N/A	
MJ10012	N/A	
MJ11011	N/A	
MJ11011 MJ11012	N/A	
MJ11012 MJ11013	N/A N/A	
MJ11013		
	N/A	
MJ11015	N/A	
MJ11016	N/A	
MJ2501	N/A	
MJ2955	N/A	
MJ3000	N/A	
MJ3001	N/A	
MJ4033	N/A	
MJ4035	N/A	
MJ410	N/A	
MJ802	N/A	
MJ901	N/A	
PMD10K100	N/A	
PMD10K40	N/A	
PMD10K60	N/A	
PMD10K80	N/A	
PMD12K100	N/A	
PMD12K40	N/A	
PMD12K60	N/A	
PMD12K80	N/A	
PMD13K100	N/A	
PMD16K100	N/A	
PMD16K60	N/A	
PMD16K80	N/A	
PMD1601K	N/A N/A	
PMD1602K	N/A N/A	
PMD1603K	N/A N/A	
* CONTINUED ***	1 V/ /1	

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PMD17K100	N/A	
PMD17K60	N/A	
PMD17K80	N/A	
PMD1701K	N/A	
PMD1702K	N/A	
PMD1703K	N/A	
PMD18K100	N/A	
PMD18K60	N/A	
PMD18K80	N/A	
PMD19K100	N/A	
PMD19K60	N/A	
PMD19K80	N/A	
SE9303	N/A	
SE9304	N/A	
SE9305	N/A	
TIP102	N/A	
TIP107	N/A	
TIP107 SL	N/A	
TIP117	N/A	
TIP117 SL	N/A	
TIP122	N/A	
TIP122 SL	N/A	
TIP127	N/A	
TIP127 SL	N/A	
TIP132	N/A	
TIP137	N/A	
TIP140T	N/A	
TIP141T	N/A	
TIP1411 TIP142T	N/A N/A	
TIP1421 TIP145T	N/A N/A	
TIP146T	N/A	
TIP147T	N/A	
TIP29	N/A	
TIP29A	N/A	
TIP29A SL	N/A	
TIP29B	N/A	
TIP29C	N/A	
TIP31	N/A	
TIP31 SL	N/A	
TIP31A	N/A	
TIP31B	N/A	
TIP31C SL	N/A	
TIP32	N/A	

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Central Part Number	Suggested Replacement	
TIP32A	N/A	
TIP32A SL	N/A	
TIP32B	N/A	
TIP32C	N/A	
TIP41	N/A	
TIP41A	N/A	
TIP41B	N/A	
TIP41C	N/A	
TIP41C SL	N/A	
TIP42	N/A	
TIP42A	N/A	
TIP42B	N/A	
TIP42C	N/A	
TIP42C SL	N/A	
TIP42D	N/A	
2N3054	N/A	
2N3055	N/A	
2N3442	N/A	
2N3448	N/A	
2N3713	N/A	
2N3714	N/A	
2N3715	N/A	
2N3716	N/A	
2N3766	N/A	
2N3767	N/A	
2N3771	N/A	
2N3772	N/A	
2N3773	N/A	
2N3789	N/A	
2N3790	N/A	
2N3791	N/A	
2N3792	N/A	
2N3902	N/A	
2N4231	N/A	
2N4232	N/A	
2N4233	N/A	
2N4233 2N4347	N/A	
2N4348	N/A	
2N4348 2N4398	N/A N/A	
2N4398 2N4399	N/A N/A	
2N4991	N/A N/A	
2N4901 2N4902	N/A N/A	
2N4903 * CONTINUED ***	N/A	

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Central Part Number	Suggested Replacement	
2N4904	N/A	
2N4905	N/A	
2N4906	N/A	
2N4910	N/A	
2N4911	N/A	
2N4912	N/A	
2N4913	N/A	
2N4914	N/A	
2N4915	N/A	
2N4918	N/A	
2N4919	N/A	
2N4920	N/A	
2N4921	N/A	
2N4922	N/A	
2N4923	N/A	
2N4923 SL	N/A	
2N5067	N/A	
2N5068	N/A	
2N5069	N/A	
2N5192	N/A	
2N5192 SL	N/A	
2N5195	N/A	
2N5195 SL	N/A	
2N5240	N/A	
2N5294	N/A	
2N5294 2N5296	N/A	
2N5290 2N5297	N/A	
2N5297 SL	N/A	
2N5298	N/A	
2N5301	N/A	
2N5302	N/A	
2N5303	N/A	
2N5490	N/A	
2N5492	N/A	
2N5494	N/A	
2N5496	N/A	
2N5629	N/A	
2N5632	N/A	
2N5655	N/A	
2N5656	N/A	
2N5657	N/A	
2N5745	N/A	
2N5760	N/A	

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Notification Date:	
Last Buy Date:	Stock Only
Last Shipment Date	Stock Only

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

Central Part Number	Suggested Replacement	
2N5838	N/A	
2N5873	N/A	
2N5875	N/A	
2N5876	N/A	
2N5877	N/A	
2N5878	N/A	
2N5879	N/A	
2N5880	N/A	
2N5881	N/A	
2N5882	N/A	
2N5883	N/A	
2N5884	N/A	
2N5885	N/A	
2N5886	N/A	
2N6029	N/A	
2N6031	N/A	
2N6034	N/A	
2N6035	N/A	
2N6036	N/A	
2N6037	N/A	
2N6038	N/A	
2N6039 SL	N/A	
2N6040	N/A	
2N6042	N/A	
2N6043	N/A N/A	
2N6044	N/A N/A	
2N6045	N/A	
2N6050	N/A	
2N6051	N/A	
2N6052	N/A	
2N6055	N/A	
2N6056	N/A	
2N6057	N/A	
2N6058	N/A	
2N6059	N/A	
2N6099	N/A	
2N6107	N/A	
2N6109	N/A	
2N6111	N/A	
2N6121	N/A	
2N6122	N/A	
2N6123	N/A	
2N6124	N/A	

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

Central Part Number	Suggested Replacement	
2N6125	N/A	
2N6126	N/A	
2N6129	N/A	
2N6130	N/A	
2N6131	N/A	
2N6132	N/A	
2N6133	N/A	
2N6134	N/A	
2N6226	N/A	
2N6229	N/A	
2N6230	N/A	
2N6246	N/A	
2N6247	N/A	
2N6248	N/A	
2N6249	N/A	
2N6250	N/A	
2N6251	N/A	
2N6253	N/A	
2N6254	N/A	
2N6259	N/A	
2N6260	N/A	
2N6263	N/A	
2N6282	N/A	
2N6283	N/A	
2N6284	N/A	
2N6285	N/A	
2N6286	N/A	
2N6287	N/A	
2N6288	N/A	
2N6290	N/A	
2N6292	N/A	
2N6306	N/A	
2N6307	N/A	
2N6308	N/A	
2N6312	N/A	
2N6371	N/A	
2N6383	N/A	
2N6384	N/A	
2N6385	N/A N/A	
2N6386	N/A N/A	
	N/A N/A	
2N6387 2N6388	N/A N/A	
2N6465 * CONTINUED ***	N/A	

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

Central Part Number	Suggested Replacement	
2N6466	N/A	
2N6469	N/A	
2N6470	N/A	
2N6471	N/A	
2N6472	N/A	
2N6475	N/A	
2N6476	N/A	
2N6489	N/A	
2N6489 SL	N/A	
2N6490	N/A	
2N6491	N/A	
2N6497	N/A	
2N6498	N/A	
2N6498 SL	N/A	
2N6499	N/A	
2N6499 SL	N/A	
2N6530	N/A	
2N6531	N/A	
2N6532	N/A	
2N6543	N/A	
2N6544	N/A	
2N6545	N/A	
2N6546	N/A	
2N6547	N/A	
2N6569	N/A	
2N6576	N/A	
2N6577	N/A	
2N6578	N/A	
2N6594	N/A	
2N6609	N/A	
2N6666	N/A	
2N6667	N/A	
2N6668	N/A	
2N6671	N/A	
2N6672	N/A	
2N6673	N/A	
2N6674	N/A	
2N6675	N/A	
2N6677	N/A	
2N6678	N/A	
40250	N/A	
40312	N/A	

*** CONTINUED ***

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submit an online inquiry.

opportunities/additional information.

Product End of Life Notification

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<u>Central Part Number</u> <u>Suggested Replacement</u>

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

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