TIP42 TIP42A TIP42B TIP42C

PNP SILICON POWER TRANSISTOR



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR TIP42 SERIES types are PNP Epitaxial-Base Silicon Power Transistors designed for power amplifier and high speed switching applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage	SYMBOL V _{CBO}	TIP42 40	TIP42A 60	TIP42B 80	TIP42C 100	UNITS V
Collector-Emitter Voltage	V_{CEO}	40	60	80	100	V
Emitter-Base Voltage	V_{EBO}		5	.0		V
Continuous Collector Current	IC		6	.0		Α
Peak Collector Current	I _{CM}		1	0		Α
Continuous Base Current	I_{B}		2	.0		Α
Power Dissipation	P_{D}		6	55		W
Power Dissipation (T _A =25°C)	P_{D}		2	.0		W
Operating and Storage Junction Temperature	T _J , T _{sta}		-65 to	+150		°C

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Operating an	nd Storage Junction Temperature	T _J , T _{stg}	-65 to	+150	°C
ELECTRICA SYMBOL	L CHARACTERISTICS: (T _C =25°C u TEST CONDITIONS	nless otherwise n	noted) TYP	MAX	UNITS
ICEO	V _{CE} =30V (TIP42, TIP42A)			0.7	mA
ICEO	V _{CE} =60V (TIP42B, TIP42C)			0.7	mA
ICES	V _{CE} =Rated V _{CEO}			0.4	mA
I _{EBO}	V _{EB} =5.0V			1.0	mA
BV CEO	I _C =30mA (TIP42)	40			V
BVCEO	I _C =30mA (TIP42A)	60			V
BV_{CEO}	I _C =30mA (TIP42B)	80			V
BV_{CEO}	I _C =30mA (TIP42C)	100			V
V _{CE} (SAT)	I _C =6.0A, I _B =0.6A			1.5	V
V _{BE(ON)}	V_{CE} =4.0V, I_{C} =6.0A			2.0	V
h _{FE}	V_{CE} =4.0V, I_{C} =0.3A	30			
hFE	V_{CE} =4.0V, I_{C} =3.0A	15		75	
h _{fe}	V_{CE} =10V, I_{C} =0.5A, f=1.0kHz	20			
f_{T}	V_{CE} =10V, I_{C} =0.5A, f=1.0MHz	3.0			MHz
ton	I_C =6.0A, I_{B1} = I_{B2} =0.6A, R_L =5.0 Ω		0.4		μs
t _{off}	I_C =6.0A, I_{B1} = I_{B2} =0.6A, R_L =5.0 Ω		0.7		μs

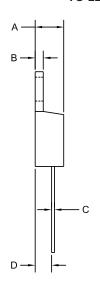
R2 (22-July 2014)

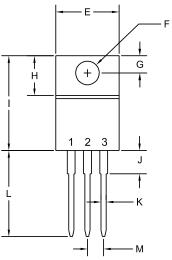
TIP42 TIP42A TIP42B TIP42C

PNP SILICON POWER TRANSISTOR



TO-220 CASE - MECHANICAL OUTLINE





R2

LEAD CODE:

- 1) Base
- 2) Collector
- 3) Emitter
- Tab) Collector

MARKING:

FULL PART NUMBER

DIMENSIONS				
	INC	HES	MILLIM	ETERS
SYMBOL	MIN	MAX	MIN	MAX
Α	0.170	0.190	4.31	4.82
В	0.045	0.055	1.15	1.39
С	0.013	0.026	0.33	0.65
D	0.083	0.107	2.10	2.72
Е	0.394	0.417	10.01	10.60
F (DIA)	0.140	0.157	3.55	4.00
G	0.100	0.118	2.54	3.00
Н	0.230	0.270	5.85	6.85
	0.560	0.625	14.23	15.87
J	-	0.250	-	6.35
K	0.025	0.038	0.64	0.96
L	0.500	0.579	12.70	14.70
M	0.090	0.110	2.29	2.79

TO-220 (REV: R2)

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.



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

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

*** CONTINUED FROM PRIOR PAGE ***

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

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	
BD157 BD158	N/A	
BD150	N/A	
BD175	N/A	
BD176	N/A	
BD170 BD177	N/A	
BD177	N/A	
BD178 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	
BD238 SL	N/A	
BD433	N/A	
BD434	N/A	
BD437	N/A	
BD438	N/A	
BD439	N/A	
BD440	N/A	
BD441	N/A	

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Last Buy Date:	
Last Shipment Date	Stock Only

*** CONTINUED FROM PRIOR PAGE ***

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

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 N/A	
BD680	N/A 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	
BF471	N/A	
BF472	N/A	
BUW34	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 N/A	
BUX80	N/A N/A	
* CONTINUED ***	1 V/ / A	

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*** CONTINUED FROM PRIOR PAGE ***

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

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	
CEN774 CEN821	N/A	
CEN844	N/A	
CEN925	N/A	
CEN951	N/A	
CEN961	N/A	
CEN972	N/A	
CEN992	N/A N/A	
CM3441	N/A N/A	
CP166-BUP54-WN	N/A N/A	
CP230-CZT122-CT	N/A CP260-TIP122-CT	
** CONTINUED ***	CF 200-11F122-C1	

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*** CONTINUED FROM PRIOR PAGE ***

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

An I lating types (I DF REE, I II (LEAD) for each frem listed are included in this notice.	
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 TR	N/A
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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*** CONTINUED FROM PRIOR PAGE ***

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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	
MJE251	N/A	
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	
MJE703 MJE710	N/A	
MJE710 MJE711	N/A	
MJE711	N/A	
MJE712	N/A	

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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	
MJ11012	N/A	
MJ11013	N/A	
MJ11013	N/A	
MJ11014 MJ11015	N/A N/A	
MJ11016	N/A N/A	
MJ2501	N/A N/A	
	N/A N/A	
MJ2955		
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	
PMD1602K	N/A	
PMD1603K	N/A	
* CONTINUED ***	* V * *	

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Central Part Number	Suggested Replacement	
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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*** CONTINUED FROM PRIOR PAGE ***

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

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	
2N4347	N/A	
2N4348	N/A	
2N4398	N/A	
2N4399	N/A	
2N4901	N/A	
2N4902	N/A	
2N4903	N/A	
*** CONTINUED ***		

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

*** CONTINUED FROM PRIOR PAGE ***

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

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 2N5192 SL	N/A N/A	
2N5192 SL 2N5195		
	N/A	
2N5195 SL	N/A	
2N5240	N/A	
2N5294	N/A	
2N5296	N/A	
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	
* CONTINUED ***	1 V 4 1	

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

*** CONTINUED FROM PRIOR PAGE ***

* 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			
2N6044	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			
2N6107 2N6109	N/A			
2N6111	N/A N/A			
2N6121	N/A N/A			
2N6121 2N6122				
	N/A			
2N6123 2N6124	N/A			
* CONTINUED ***	N/A			

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

*** CONTINUED FROM PRIOR PAGE ***

* 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			
2N6290 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			
2N6386	N/A			
2N6387	N/A			
2N6388	N/A			
2N6465 * CONTINUED ***	N/A			

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

*** CONTINUED FROM PRIOR PAGE ***

* 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			
	N/A			
2N6674	N/A N/A			
2N6675	N/A N/A			
2N6677				
2N6678	N/A			
40250	N/A			
40312	N/A			

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submit an online inquiry.

Product End of Life Notification

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

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***	('(')')	NTINI	TED	FROM	PRIOR	PAGE	***

<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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