



**THE DATASHEET OF
TIP31C PBFREE**



TIP31
TIP31A
TIP31B
TIP31C
SILICON
NPN POWER TRANSISTORS



TO-220 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR TIP31 series devices are silicon NPN epitaxial-base power transistors designed for power amplifier and high speed switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_C=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	TIP31	TIP31A	TIP31B	TIP31C	UNITS
Collector-Base Voltage	V_{CBO}	40	60	80	100	V
Collector-Emitter Voltage	V_{CEO}	40	60	80	100	V
Emitter-Base Voltage	V_{EBO}		5.0			V
Continuous Collector Current	I_C		3.0			A
Peak Collector Current	I_{CM}		5.0			A
Continuous Base Current	I_B		1.0			A
Power Dissipation	P_D		40			W
Power Dissipation ($T_A=25^\circ\text{C}$)	P_D		2.0			W
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +150			$^\circ\text{C}$
Thermal Resistance	Θ_{JA}		62.5			$^\circ\text{C/W}$
Thermal Resistance	Θ_{JC}		3.13			$^\circ\text{C/W}$

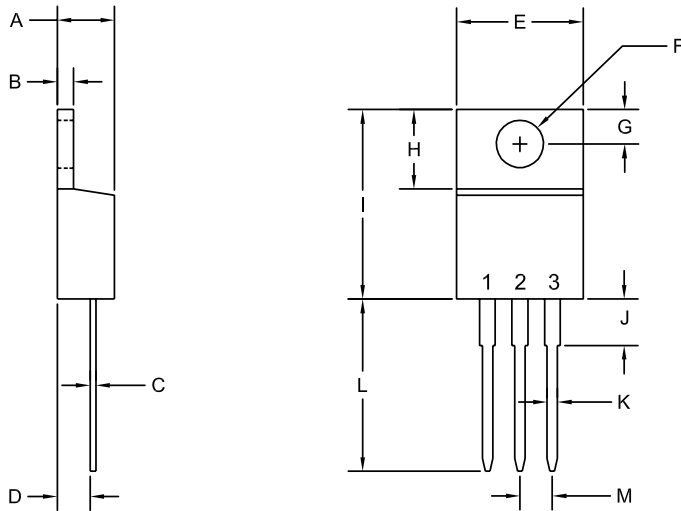
ELECTRICAL CHARACTERISTICS: ($T_C=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{CEO}	$V_{CE}=30\text{V}$ (TIP31, TIP31A)			0.3	mA
I_{CEO}	$V_{CE}=60\text{V}$ (TIP31B, TIP31C)			0.3	mA
I_{CES}	$V_{CE}=\text{Rated } V_{CEO}$			0.2	mA
I_{EBO}	$V_{EB}=5.0\text{V}$			1.0	mA
BV_{CEO}	$I_C=30\text{mA}$ (TIP31)	40			V
BV_{CEO}	$I_C=30\text{mA}$ (TIP31A)	60			V
BV_{CEO}	$I_C=30\text{mA}$ (TIP31B)	80			V
BV_{CEO}	$I_C=30\text{mA}$ (TIP31C)	100			V
$V_{CE(SAT)}$	$I_C=3.0\text{A}, I_B=375\text{mA}$			1.2	V
$V_{BE(ON)}$	$V_{CE}=4.0\text{V}, I_C=3.0\text{A}$			1.8	V
h_{FE}	$V_{CE}=4.0\text{V}, I_C=1.0\text{A}$	25			
h_{FE}	$V_{CE}=4.0\text{V}, I_C=3.0\text{A}$	10		60	
h_{fe}	$V_{CE}=10\text{V}, I_C=0.5\text{A}, f=1.0\text{kHz}$	20			
f_T	$V_{CE}=10\text{V}, I_C=0.5\text{A}, f=1.0\text{MHz}$	3.0			MHz
t_{on}	$I_C=1.0\text{A}, I_{B1}=I_{B2}=0.1\text{A}, R_L=30\Omega$		0.3		μs
t_{off}	$I_C=1.0\text{A}, I_{B1}=I_{B2}=0.1\text{A}, R_L=30\Omega$		1.0		μs

TIP31
 TIP31A
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 SILICON
 NPN POWER TRANSISTORS



TO-220 CASE - MECHANICAL OUTLINE



R2

LEAD CODE:

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

MARKING:
 FULL PART NUMBER

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.170	0.190	4.31	4.82
B	0.045	0.055	1.15	1.39
C	0.013	0.026	0.33	0.65
D	0.083	0.107	2.10	2.72
E	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
H	0.230	0.270	5.85	6.85
I	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 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

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

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



<http://www.centrasemi.com>

Product End of Life Notification

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

Product End of Life Notification

PDN ID:	PDN01250
Notification Date:	2/10/23
Last Buy Date:	Stock Only
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@centrasemi.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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<u>Central Part Number</u>	<u>Suggested Replacement</u>
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
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

*** CONTINUED ***

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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
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
BUX80	N/A

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

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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 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

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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
MJE710	N/A
MJE711	N/A
MJE712	N/A
MJE720	N/A

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<u>Central Part Number</u>	<u>Suggested Replacement</u>
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
MJ11014	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
PMD1602K	N/A
PMD1603K	N/A

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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
TIP142T	N/A
TIP145T	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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<u>Central Part Number</u>	<u>Suggested Replacement</u>
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

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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
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
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 ***

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Product End of Life Notification

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
2N6109	N/A
2N6111	N/A
2N6121	N/A
2N6122	N/A
2N6123	N/A
2N6124	N/A

*** CONTINUED ***

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Product End of Life Notification

PDN ID:	PDN01250
Notification Date:	2/10/23
Last Buy Date:	Stock Only
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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
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
2N6386	N/A
2N6387	N/A
2N6388	N/A
2N6465	N/A

*** CONTINUED ***

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Product End of Life Notification

PDN ID:	PDN01250
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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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http://www.centrasemi.com

Product End of Life Notification

PDN ID:	PDN01250
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<u>Central Part Number</u>	<u>Suggested Replacement</u>
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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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- ✓ Shortage Management
- ✓ Alternative Solution
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