

POWER TRANSISTOR

Central

TO-3 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6544, 2N6545 types are Silicon NPN Triple Diffused Mesa Transistors designed for high voltage, high current, high speed switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C)	SYMBOL	<u>2N6544</u>	<u>2N6545</u>	UNITS
Collector-Emitter Voltage	VCEV	650	850	V
Collector-Emitter Voltage	VCEX	350	450	V
Collector-Emitter Voltage	VCEO	300	400	V
Emitter-Base Voltage	VEBO	9.	.0	V
Continuous Collector Current	۱ _C	8.	.0	А
Peak Collector Current	ICM	1	6	А
Continuous Emitter Current	ΙE	1	6	А
Peak Emitter Current	IEM	3	2	А
Continuous Base Current	۱ _B	8.	.0	А
Peak Base Current	IBM	1	6	А
Power Dissipation	PD	12	25	W
Power Dissipation, T _C =100°C	PD	71	.5	W
Operating and Storage Junction Temperature	TJ, T _{stg}	-65 to	+200	°C
Thermal Resistance	ΘJC	1.	.4	°C/W

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

		2N	<u>6544</u>	<u>2N</u>	<u>2N6545</u>	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
ICEV	V _{CE} =Rated V _{CEV} , V _{BE} =1.5V	-	0.5	-	0.5	mA
ICEV	V _{CE} =Rated V _{CEV} , V _{BE} =1.5V, T _C =100°C	-	2.5	-	2.5	mA
ICER	V _{CE} =Rated V _{CEV} , R _{BE} =50Ω, T _C =100°C	-	3.0	-	3.0	mA
IEBO	V _{EB} =9.0V	-	1.0	-	1.0	mA
BVCEX	V _{CL} =Rated V _{CEX} , I _C =4.5A, T _C =100°C	350	-	450	-	V
BVCEX	V _{CL} =Rated V _{CEO} -100V, I _C =8.0A, T _C =100°C	200	-	300	-	V
BVCEO	I _C =100mA	300	-	400	-	V
V _{CE} (SAT)	I _C =5.0A, I _B =1.0A	-	1.5	-	1.5	V
V _{CE} (SAT)	I _C =8.0A, I _B =2.0A	-	5.0	-	5.0	V
V _{CE(SAT)}	I _C =5.0A, I _B =1.0A, T _C =100°C	-	2.5	-	2.5	V
V _{BE} (SAT)	I _C =5.0A, I _B =1.0A	-	1.6	-	1.6	V
V _{BE(SAT)}	I _C =5.0A, I _B =1.0A, T _C =100°C	-	1.6	-	1.6	V
h _{FE}	V _{CF} =3.0V, I _C =2.5A	12	60	12	60	
hFE	V _{CE} =3.0V, I _C =5.0A	7.0	35	7.0	35	

R1 (7-February 2011)

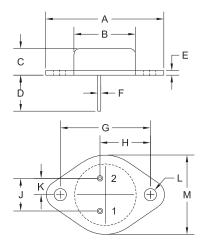


2N6544 2N6545

NPN SILICON POWER TRANSISTOR

	AL CHARACTERISTICS - Continued: TEST CONDITIONS	(T _C =25°C unle MIN	ess otherwise n TYP	oted) MAX	UNITS
f _t	V _{CF} =10V, I _C =300mA, f=1.0MHz	6.0		28	MHz
•	V _{CB} =10V, I _E =0, f=1.0MHz	75		300	pF
I _{s/b}	V _{CE} =100V, t=1.0s	0.2			Α
Resistive L	oad				
^t d	$V_{}=250V_{}=500$			0.05	μs
t _r t _s	V _{CC} =250V, I _C =5.0A, I _{B1} =I _{B2} =1.0A, t _p =100µs, Duty Cycle≤2.0%			1.0	μs
t _s	$B_1 - B_2 - 1.0A, v_p - 100\mu s,$			4.0	μs
t _f	Duty Cycle=2.0 /6			1.0	μs
Inductive Lo	oad (Clamped)				
t _s t _f	V _{CL} =Rated V _{CEX} , I _C =5.0A,			4.0	μs
t _f	V _{CL} =Rated V _{CEX} , I _C =5.0A, I _{B1} =1.0A, V _{BE} =5.0V, T _C =100°C			0.9	μs
t _s	V _{CL} =Rated V _{CEX} , I _C =5.0A, I _{B1} =1.0A, V _{BF} =5.0V, T _C =25°C		1.2		μs
t _f	│ I _{B1} =1.0A, V _{BE} =5.0V, T _C =25°C │		0.18		μs

TO-3 CASE - MECHANICAL OUTLINE



	DIM	ENSION	S	
	INC	HES	MILLIM	ETERS
SYMBOL	MIN	MAX	MIN	MAX
А	1.516	1.573	38.50	39.96
B (DIA)	0.748	0.875	19.00	22.23
С	0.250	0.450	6.35	11.43
D	0.433	0.516	11.00	13.10
E	0.054	0.065	1.38	1.65
F	0.035	0.045	0.90	1.15
G	1.177	1.197	29.90	30.40
Н	0.650	0.681	16.50	17.30
J	0.420	0.440	10.67	11.18
K	0.205	0.225	5.21	5.72
L (DIA)	0.151	0.172	3.84	4.36
М	0.984	1.050	25.00	26.67
	TO-3 (REV: R2)			

R2 LEAD CODE:

1) Base 2) Emitter Case) Collector

MARKING: FULL PART NUMBER

R1 (7-February 2011)

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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

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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- 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: <u>www.centralsemi.com/terms</u>





Product End of Life Notification

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.



Product End of Life Notification

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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Last Shipment Date	Stock Only

*** CONTINUED FROM PRIOR PAGE ***

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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
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 N/A
BD680	N/A N/A
BD680A	N/A N/A
BD680A SL	N/A N/A
BD681	N/A N/A
BD681 SL	N/A N/A
BD681 SL BD682	N/A N/A
BD682 SL	N/A N/A
BD683	N/A N/A
BD683 SL	N/A N/A
	N/A N/A
BD908	
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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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 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 N/A
MJE13008 MJE13009	N/A N/A
MJE15009 MJE15030	N/A N/A
MJE15030 MJE15031	N/A N/A
MJE15051 MJE170	N/A N/A
MJE170 MJE171	N/A N/A
MJE171 MJE172	N/A N/A
MJE172 MJE180	N/A N/A
MJE180 MJE181	N/A N/A
MJE181 MJE182	N/A N/A
MJE182 MJE200	N/A N/A
	N/A N/A
MJE210 MJE220	
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
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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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
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 N/A
PMD10K100 PMD10K40	N/A N/A
PMD10K60	N/A N/A
PMD10K80	N/A N/A
PMD12K100	N/A N/A
PMD12K40	N/A N/A
PMD12K60	N/A N/A
PMD12K80	N/A N/A
PMD12K80 PMD13K100	N/A N/A
PMD16K100	N/A N/A
PMD16K60	N/A N/A
PMD16K80	N/A N/A
PMD1601K	N/A N/A
PMD1601K PMD1602K	
PMD1602K PMD1603K	N/A N/A
	1 N / 43

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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 N/A
TIP31	N/A N/A
TIP31 SL	N/A N/A
TIP31A	N/A N/A
TIP31B	N/A N/A
TIP31C SL	N/A N/A
TIP32	N/A N/A
** CONTINUED ***	

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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
2N4231 2N4232	N/A
2N4232 2N4233	N/A
2N4347	N/A
2N4348	N/A
2N4398	N/A
2N4399	N/A
2N4901	N/A
2N4901 2N4902	N/A
2N4902 2N4903	N/A
2117703	11/12



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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
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 ***	<u>• v • •</u>

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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
2N6050 2N6051	N/A
2N6052	N/A
2N6055	N/A
2N6055	N/A
2N6057	N/A
2N6058	N/A
2N6059	N/A
2N6099	N/A
2N6107	N/A
2N6107 2N6109	N/A N/A
2N6111	N/A N/A
2N6121	N/A N/A
2N6121 2N6122	N/A N/A
2N6122 2N6123	
2N6123 2N6124	N/A
2N6124 ** CONTINUED ***	N/A

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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
2N6387	N/A N/A
2N6388	N/A N/A
2N6465	N/A N/A
2N6465 ** CONTINUED ***	\mathbf{N}/\mathbf{A}

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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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Central Part Number Suggested Replacement

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 submit an online inquiry.

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