2N6724 2N6725

SILICON NPN DARLINGTON POWER TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6724 and 2N6725 are silicon NPN Darlington power transistors designed for amplifier applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL	<u>2N6724</u>	<u>2N6725</u>	UNITS
Collector-Base Voltage	V_{CBO}	50	60	V
Collector-Emitter Voltage	V_{CEO}	40	50	V
Emitter-Base Voltage	V_{EBO}	1	2	V
Continuous Collector Current	IC	2	.0	Α
Continuous Base Current	I_{B}	0	.5	Α
Power Dissipation (T _C =25°C)	P_{D}	2	.0	W
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to	+150	°C
Thermal Resistance	ΘJC	62	2.5	°C/W

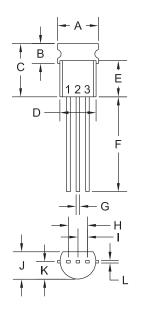
ELECTRICAL SYMBOL	CHARACTERISTICS: (T _A =25°C) TEST CONDITIONS	<u>2N6</u> MIN	6724 MAX	<u>2N6</u> MIN	6725 MAX	UNITS
ICBO	V _{CB} =30V	-	100	-	-	nA
I _{CBO}	V _{CB} =40V	-	-	-	100	nA
I _{EBO}	V _{EB} =10V	-	100	-	100	nA
BV CBO	I _C =1.0μA	50	-	60	-	V
BV _{CES}	I _C =1.0mA	40	-	50	-	V
BVEBO	I _E =10μA	12	-	12	-	V
V _{CE(SAT)}	I _C =1.0A, I _B =2.0mA	-	1.5	-	1.5	V
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =1.0A	-	2.0	-	2.0	V
hFE	V_{CE} =5.0V, I_{C} =200mA	25K	-	25K	-	
hFE	V_{CE} =5.0V, I_{C} =1.0A	4K	40K	4K	40K	
f _T	V_{CE} =5.0V, I_{C} =200mA, f=100MHz	100	1K	100	1K	MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz	-	10	-	10	pF

2N6724 2N6725

SILICON NPN DARLINGTON POWER TRANSISTORS



TO-237 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIM	ETERS
SYMBOL	MIN	MAX	MIN	MAX
Α	0.160	0.215	4.06	5.46
В	0.095	0.105	2.41	2.67
С	0.260	0.280	6.60	7.11
D (DIA)	0.175	0.205	4.45	5.21
Е	0.170	0.210	4.32	5.33
F	0.500	-	12.70	-
G	0.016	0.022	0.41	0.56
Н	0.100		2.	54
	0.050		1.27	
J	0.125	0.165	3.18	4.19
K	0.080	0.105	2.03	2.67
Ĺ	0.014	0.016	0.36	0.41
TO 227 (DE\/: D1)				

TO-237 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Base

R1

3) Collector

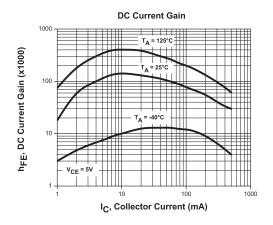
MARKING: FULL PART NUMBER

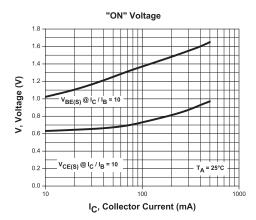
2N6724 2N6725

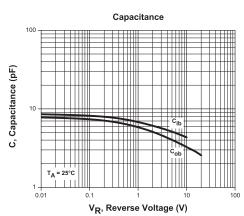
SILICON NPN DARLINGTON POWER TRANSISTORS

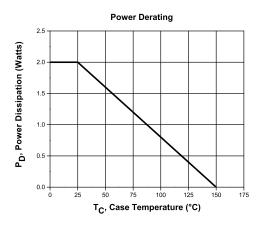


TYPICAL ELECTRICAL CHARACTERISTICS









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

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

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Worldwide Field Representatives: www.centralsemi.com/wwreps

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Product End of Life Notification

PDN ID:	PDN01004
Notification Date:	10/01/15
Last Buy Date:	4/01/16
Last Shipment Date	10/01/16

Summary: All transistors manufactured in the TO-237 package are discontinued and now classified as End of Life (EOL).

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.

	Central Part Number	Replacement
	CENW01	CEN-U01A
	CENW01A	CEN-U01A
	CENW05	CEN-U05
	CENW06	CEN-U06
	CENW07	CEN-U07
	CENW10	CEN-U10
	CENW13	MPSA13
	CENW13 TRA	MPSA13
	CENW14	MPSA14
	CENW42	MPSA42
	CENW42 TRA	MPSA42
	CENW42 TRC	MPSA42
	CENW42 TRE	MPSA42
	CENW51	CEN-U51A
	CENW51A	CEN-U51A
	CENW55	CEN-U55
	CENW56	CEN-U56
	CENW57	CEN-U57
	CENW60	CEN-U60
	CENW63	MPSA63
	CENW64	MPSA64
	CENW64-5	MPSA64
	CENW751	MPS751
	CENW92	MPSA92
	CENW92 TRA	MPSA92
	CENW92 TRE	MPSA92
	CEN1299	N/A
	CEN940	N/A
	TN2102	2N2102
	TN2219A	2N2219A
	TN2219A-5	2N2219A
	TN2905A	2N2905A
	TN2905A-5	2N2905A
	TN3019	2N3019
	TN3019-5	2N3019
	TN3019A	2N3019
	TN3020	2N3020
	TN3053	2N3053
* :	** 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.

CCC785 REV 002



Product End of Life Notification

PDN ID:	PDN01004
Notification Date:	10/01/15
Last Buy Date:	4/01/16
Last Shipment Date	10/01/16

*** CONTINUED FROM PRIOR PAGE ***

Control Part Number Parls coment				
Central Part Number TN3724	Replacement N/A			
2N6714	MPS650			
2N6715	MPS650			
2N6715 TRE	MPS650			
2N6715-18	MPS650			
2N6716	MPS651			
2N6716 APM	MPS651			
2N6716 APP	MPS651			
2N6716 TRE	MPS651			
2N6717	MPS651			
2N6717 TRE	MPS651			
2N6718	MPS651			
2N6718 APM	MPS651			
2N6718 TRE	MPS651			
2N6718-5T	MPS651			
2N6719	N/A			
2N6719 TRA	N/A			
2N6719 TRC	N/A			
2N6719 TRE	N/A			
2N6719-5T	N/A			
2N6720	N/A			
2N6721	N/A			
2N6722	N/A			
2N6723	N/A			
2N6724	N/A			
2N6724 TRA	N/A			
2N6724-18	N/A			
2N6725	N/A			
2N6726	MPS650			
2N6727	MPS750			
2N6727 TRE	MPS750			
2N6728	MPS751			
2N6729	MPS751			
2N6729 APP	MPS751			
2N6730	MPS751			
2N6730 APP	MPS751			
2N6730 TRE	MPS751			
2N6730-5T	MPS751			
2N6731	N/A			
2N6732	N/A			
2N6733	N/A			
2N6734	N/A			
2N6735	N/A			
**				

*** CONTINUED ***

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CCC785 REV 002



Product End of Life Notification

PDN ID:	PDN01004
Notification Date:	10/01/15
	4/01/16
Last Shipment Date	10/01/16

*** CONTINUED FROM PRIOR PAGE ***

Central Part Number	Replacement	
Central would be happy to assist yo	ou by providing additional information or technical data to help locate an alternate source if w	⁄е
have no replacement available. Plea	ase email your requests to engineering@centralsemi.com.	

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CCC785 REV 002