Central Semiconductor Corp. Central Semiconductor Corp. Central™ Semiconductor Corp.

Hauppauge, New York 11788

145 Adams Avenue

2N3726 2N3727

PNP DUAL SILICON TRANSISTOR

JEDEC TO-78 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N3726, 2N3727 types are silicon PNP dual transistors manufactured by the epitaxial planar process utilizing 2 individual chips mounted in a hermetically sealed metal case designed for differential amplifier applications.

MAXIMUM RAT	INGS	(T∧=25°C	unless	otherwise	noted)
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		SYMBOL			UNIT
Collector-Base	Voltage	V _{CBO}	45		\frac{\fint}\fint{\frac{\fint}\fint{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fint}\fint{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fint}\fint{\fint}\fint{\frac{\fint}\fint{\frac{\fint}\fint{\fint}\fint{\fint}\fint{\fint}\fint}\fint}\fint}\fint{\fint}\fint}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}
Collector-Emit	ter Voltage	VCEO	45		V
Emitter-Base Voltage		VEBO	5.0		V
Collector Curr	ent	10	300		mA
Base Current		ΙΒ̈́	100		mΑ
Power Dissipat	ion (One Die)	PD	400		mW
	ion (Both Dice)	PD	500		mW
	ion (One Die, T _C =25°C)	PD	850		mW
	ion (Both Dice, T _C =25°C)	PD	1400		mW
Operating and		· D	1 100		HIW
Junction Tempe		T _J , T _{STG}	-65 to +200		°C
	Collector 2 Voltage	. J , . S I G	0) (0 .200		C
(Voltage Rated	From Any Lead to the Case)	Vc1. Vc2	±200		٧
ELECTRICAL CHA	RACTERISTICS (TA=25°C unle	ss otherwise noted)			•
SYMBOL	TEST CONDITIONS		MIN	MAX	UNIT
^I CBO	V _{CB} =30V			10	nA
l CBO	$V_{CB}=30V$, $T_A=150$ °C			10	μΑ
l _{EBO}	V _{BE} =3.0V			0.1	μА
BVCBO	I _C =10μA		45		٧
BVCEO	I _C =10mA		45		V
BVEBO	I _E =10μA		5.0		٧
V _{CE} (SAT)	I_=50mA, IB=2.5mA		-	0.25	V
VBE (SAT)	Ic=50mA, IB=2.5mA			1.0	v
h _{FE}	V _{CE} =5.0V, I _C =10μA		80	-	•
hFE	V _{CE} =5.0V, I _C =100μA		120	-	
hFE	V _{CE} =5.0V, I _C =1.0mA		135	350	
hFE	V _{CE} =5.0V, I _C =50mA		115	-	
h _{fe}	V _{CE} =10V, I _C =1.0mA, f=1.0kH	z	135	420	
fŢ	V _{CE} =10V, I _C =1.0mA, f=20MHz		60	-	MHz
fŢ	V _{CE} =20V, I _C =50mA, f=100MHz		200	600	MHz
hie	V _{CE} =10V, I _C =1.0mA, f=1.0kH		-	11.5	kΩ
h _{re}	V _{CE} =10V, I _C =1.0mA, f=1.0kH		_	1500	X10-6
h _{oe}	V _{CE} =10V, I _C =1.0mA, f=1.0kH			80	μmhos
Cip	V _{EB} =0.5V, I _C =0, f=1.0MHz	_		30	pF
Cop	V _{CB} =10V, I _F =0, f=1.0MHz			8.0	рF
NF	$V_{CE}=5.0V$, $I_{C}=30\mu A$, $R_{S}=10k\Omega$. f=1.0kHz. BW=200Hz		4.0	рг dB
	02 i	,		⊣. ∪	uв

MATCHING CHARACTERISTICS:

MIN	MAX
VBE1-VBE2 VCE=5.0V, IC=0.1mA to 1.0mA (2N3726)	5.0
$V_{BE1}-V_{BE2}$ $V_{CE}=5.0V$, $I_{C}=0.1$ mA to 1.0mA (2N3727)	2.5
Δ (VBE1-VBE2) VCE=5.0V, IC=0.1mA to 1.0mA, TA=-55°C to +25°C (2N3726)	1.6
Δ (VBE1-VBE2) VCE=5.0V, IC=0.1mA to 1.0mA, TA=-55°C to +25°C (2N3727)	0.8
Δ (VBE1-VBE2) VCE=5.0V, IC=0.1mA to 1.0mA, TA=+25°C to +125°C (2N3726)	2.0
Δ (V _{BE1} -V _{BE2}) V _{CE} =5.0V, I _C =0.1mA to 1.0mA, T _A =+25°C to +125°C (2N3727) hFE1/hFE2 V _{CE} =5.0V, I _C =0.1 to 1.0mA	1.0
"FEI/"FE2 VCE-3.0V, TC-0.1 to 1.0mA 0.9	1.0



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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

- · 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

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Product End of Life Notification

PDN ID:	PDN01061
Notification Date:	1/17/17
Last Buy Date:	7/17/17
Last Shipment Date	1/17/18

Summary: All transistors manufactured in the TO-78 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
CEN876	N/A
CEN894	N/A
CEN895	N/A
CEN896	N/A
CEN911	N/A
CEN947	N/A
CEN955 W/DATA	N/A
MD2219A	N/A
MD2369	N/A
MD2369A	N/A
MD2369B	N/A
MD2905	N/A
MD2905A	N/A
MD5179	N/A
MD7000	N/A
MD7001	N/A
MD7003	N/A
MD7003A	N/A
MD7003B	N/A
MD8002	N/A
MD8003	N/A
MD918	N/A
MD918A	N/A
MD918B	N/A
MD984	N/A
2N2060	N/A
2N2060A	N/A
2N2060M	N/A
2N2223	N/A
2N2223A	N/A
2N2453	N/A
2N2453A	N/A
2N2480	N/A
2N2480A	N/A
2N2639	N/A
2N2640	N/A
2N2641	N/A
2N2642	N/A
*** 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:	PDN01061
Notification Date:	1/17/17
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Last Shipment Date	1/17/18

*** CONTINUED FROM PRIOR PAGE ***

C . ID . N I	D 1
Central Part Number	Replacement
2N2643	N/A
2N2644	N/A
2N2652	N/A
2N2652A	N/A
2N2720	N/A
2N2721	N/A
2N2722	N/A
2N2903	N/A
2N2903A	N/A
2N2913	N/A
2N2914	N/A
2N2915	N/A
2N2915A	N/A
2N2916	N/A
2N2916A	N/A
2N2917	N/A
2N2918	N/A
2N2919	N/A
2N2919A	N/A
2N2920	N/A
2N2920A	N/A
2N3726	N/A
2N3727	N/A
2N3806	N/A
2N3807	N/A
2N3808	N/A
2N3809	N/A
2N3810	N/A
2N3810A	N/A
2N3811	N/A
2N3811A	N/A
2N4015	N/A
2N4016	N/A
2N4854	N/A
2N4937	N/A
2N4938	N/A
2N4939	N/A
2N5793	N/A
2N5794	N/A
2N5796	N/A
2N5912	N/A
2N6502	N/A

*** CONTINUED ***

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*** 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 we
have no replacement available. Plea	ase email your requests to engineering@centralsemi.com.

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