Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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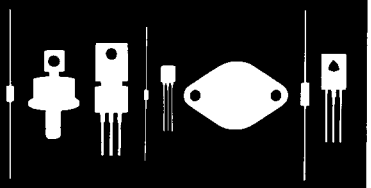

2N3726
2N3727

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 RATINGS (T_A=25°C unless otherwise noted)

	SYMBOL		UNIT
Collector-Base Voltage	V_{CBO}	45	V
Collector-Emitter Voltage	V_{CEO}	45	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Collector Current	I_C	300	mA
Base Current	I_B	100	mA
Power Dissipation (One Die)	P_D	400	mW
Power Dissipation (Both Dice)	P_D	500	mW
Power Dissipation (One Die, T_C=25°C)	P_D	850	mW
Power Dissipation (Both Dice, T_C=25°C)	P_D	1400	mW
Operating and Storage Junction Temperature	T_J, T_{STG}	-65 to +200	°C
Collector 1 to Collector 2 Voltage (Voltage Rated From Any Lead to the Case)	V_{C1}, V_{C2}	±200	V

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_{CBO}	V_{CB}=30V		10	nA
I_{CBO}	V_{CB}=30V, T_A=150°C		10	µA
I_{EBO}	V_{BE}=3.0V		0.1	µA
BV_{CBO}	I_C=10µA	45		V
BV_{CEO}	I_C=10mA	45		V
BV_{EBO}	I_E=10µA	5.0		V
$V_{CE(SAT)}$	I_C=50mA, I_B=2.5mA		0.25	V
$V_{BE(SAT)}$	I_C=50mA, I_B=2.5mA		1.0	V
h_{FE}	V_{CE}=5.0V, I_C=10µA	80	-	
h_{FE}	V_{CE}=5.0V, I_C=100µA	120	-	
h_{FE}	V_{CE}=5.0V, I_C=1.0mA	135	350	
h_{FE}	V_{CE}=5.0V, I_C=50mA	115	-	
h_{fe}	V_{CE}=10V, I_C=1.0mA, f=1.0kHz	135	420	
f_T	V_{CE}=10V, I_C=1.0mA, f=20MHz	60	-	MHz
f_T	V_{CE}=20V, I_C=50mA, f=100MHz	200	600	MHz
h_{ie}	V_{CE}=10V, I_C=1.0mA, f=1.0kHz	-	11.5	kΩ
h_{re}	V_{CE}=10V, I_C=1.0mA, f=1.0kHz	-	1500	X10-6
h_{oe}	V_{CE}=10V, I_C=1.0mA, f=1.0kHz		80	µmhos
C_{ib}	V_{EB}=0.5V, I_C=0, f=1.0MHz		30	pF
C_{ob}	V_{CB}=10V, I_E=0, f=1.0MHz		8.0	pF
NF	V_{CE}=5.0V, I_C=30µA, R_S=10kΩ, f=1.0kHz, BW=200Hz		4.0	dB

(ELECTRICAL CHARACTERISTICS CONTINUED ON OTHER SIDE)

MATCHING CHARACTERISTICS:

		MIN	MAX
$\lvert V_{BE1}-V_{BE2}\rvert$	V_{CE}=5.0V, I_C=0.1mA to 1.0mA (2N3726)		5.0
$\lvert V_{BE1}-V_{BE2}\rvert$	V_{CE}=5.0V, I_C=0.1mA to 1.0mA (2N3727)		2.5
$\Delta(V_{BE1}-V_{BE2})$	V_{CE}=5.0V, I_C=0.1mA to 1.0mA, T_A=-55°C to +25°C (2N3726)		1.6
$\Delta(V_{BE1}-V_{BE2})$	V_{CE}=5.0V, I_C=0.1mA to 1.0mA, T_A=-55°C to +25°C (2N3727)		0.8
$\Delta(V_{BE1}-V_{BE2})$	V_{CE}=5.0V, I_C=0.1mA to 1.0mA, T_A=+25°C to +125°C (2N3726)		2.0
$\Delta(V_{BE1}-V_{BE2})$	V_{CE}=5.0V, I_C=0.1mA to 1.0mA, T_A=+25°C to +125°C (2N3727)		1.0
h_{FE1}/h_{FE2}	V_{CE}=5.0V, I_C=0.1 to 1.0mA	0.9	1.0

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- Supply management (Customer portals)
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- Custom product packing

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- 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

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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 ***

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Product End of Life Notification

PDN ID:	PDN01061
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*** CONTINUED FROM PRIOR PAGE ***

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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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

*** CONTINUED FROM PRIOR PAGE ***

Central Part Number **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. Please email your requests to engineering@centralsemi.com.