

145 Adams Avenue, Hauppauge, NY 11788 USA Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

2N2917

NPN SILICON
DUAL TRANSISTOR

JEDEC TO-78 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N2917 is a silicon NPN dual transistor utilizing two individual chips mounted in a hermetically sealed metal case designed for differential amplifier applications.

$\underline{MAXIMUM\ RATINGS} \quad (T_A = 25^{\circ}C\ unless\ otherwise\ noted)$

	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	45	V
Collector-Emitter Voltage	V_{CEO}	45	V
Emitter-Base Voltage	V _{EBO}	6.0	. V
Collector Current	Ic	30	mA
Power Dissipation (One Die)	P_{D}	300	mW
Power Dissipation (Both Dice)	PD	500	mW
Power Dissipation (One Die, T _C =25°C)	P_{D}	750	mW
Power Dissipation (Both Dice, T _C =25°C) Operating and Storage	P_{D}	1500	mW
Junction Temperature	T _J , T _{stg}	-65 to +200	°C

<u>ELECTRICAL CHARACTERISTICS</u> (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
Ісво	V _{CB} =45V		10	nA
ICEO	V _{CE} =45V		2.0	nA
ГЕВО	V _{EB} =5.0V		2.0	nA
BV_CBO	I _C =10μA	45		V
BV_CEO	I _C =10mA	45		V
BV _{EBO}	i _E =10μA	6.0		V
$V_{CE(s)}$	I _C =1.0mA, I _B =0.1mA		0.35	V
$V_{BE(ON)}$	V _{CE} =5.0V, I _C =100μA		0.7	V
hFE	V_{CE} =5.0V, I_{C} =10 μ A	60	240	-
hfE	V _{CE} =5.0V, I _C =10μA, T _A =-55°C	15		
hFE	$V_{CE}=5.0V$, $I_{C}=100\mu A$	100		
hFE	V _{CE} =5.0V, I _C =1.0mA	150		
f _T	V_{CE} =5.0V, I_{C} =500 μ A, f=20MHz	60		Mhz

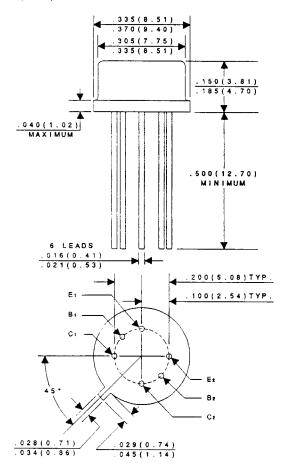
(OVER)

ELECTRICAL CHARACTERISTICS (cont.) (TA=25°C unless otherwise noted)

	SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
	C_{ob}	V_{CB} =5.0V, I_{E} =0, f=140kHz		6.0	pF
	NF	V_{CE} =5.0V, I_{C} =10 μ A, R_{S} =10 $k\Omega$, f=1.0 k Hz, BW=200Hz		4.0	dB
	h _{FE1} /h _{FE2}	$V_{CE}=5.0V$, $I_{C}=100\mu A$	0.8	1.0	
	V _{BE1} -V _{BE2}	$V_{CE}=5.0V, I_{C}=10\mu A$		10	mV
V _{BE1} -V _{BE2} V _{CE} =5.0V, I _C =100μA		5.0	mV		
	V _{BE1} -V _{BE2}	V _{CE} =5.0V, I _C =1.0mA		10	mV
	Δ (V _{BE1} -V _{BE2})	V_{CE} =5.0V, I_{C} =100 μ A, T_{A} =-55 $^{\circ}$ C to +25 $^{\circ}$ C		1.6	mV
	$\Delta(V_{BE1}-V_{BE2})$	V_{CE} =5.0V, I_{C} =100 μ A, T_{A} =+25°C to +125°C		2.0	mV

TO-78 MECHANICAL OUTLINE

All Dimensions in inches (mm).





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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www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

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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

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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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