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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N2218 and 2N2218A are silicon NPN transistors manufactured by the epitaxial planar process, and designed for small signal general purpose and switching applications.

MARKING: FULL PART NUMBER

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

(·····································	SYMBOL	<u>2N2218</u>	2N2218A	UNITS
Collector-Base Voltage	V _{CBO}	60	75	V
Collector-Emitter Voltage	V _{CEO}	30	40	V
Emitter-Base Voltage	V _{EBO}	5.0	6.0	V
Continuous Collector Current	ΙC	8	00	mA
Power Dissipation	PD	8	00	mW
Power Dissipation (T _C =25°C)	PD	3	.0	W
Operating and Storage Junction Temperature	TJ, Tstg	-65 to	+200	°C

ELECTRICAL CHARACTERISTICS: (T _A =25°C)		<u>2N2218</u>		<u>2N2218A</u>			
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS	
ICBO	V _{CB} =50V	-	10	-	-	nA	
I _{СВО}	V _{CB} =60V	-	-	-	10	nA	
ICEV	V _{CE} =60V, V _{EB} =3.0V	-	-	-	10	nA	
I _{EBO}	V _{EB} =3.0V	-	10	-	10	nA	
BVCBO	Ι _C =10μΑ	60	-	75	-	V	
BVCEO	I _C =10mA	30	-	40	-	V	
BVEBO	Ι _Ε =10μΑ	5.0	-	6.0	-	V	
V _{CE(SAT)}	I _C =150mA, I _B =15mA	-	0.4	-	0.3	V	
VCE(SAT)	I _C =500mA, I _B =50mA	-	1.6	-	1.0	V	
V _{BE(SAT)}	I _C =150mA, I _B =15mA	-	1.3	-	1.2	V	
V _{BE(SAT)}	I _C =500mA, I _B =50mA	-	2.6	-	2.0	V	
h _{FE}	V _{CE} =10V, I _C =100µA	20	-	20	-		
h _{FE}	V _{CE} =10V, I _C =1.0mA	25	-	25	-		
h _{FE}	V _{CE} =10V, I _C =10mA	35	-	35	-		
h _{FE}	V _{CE} =10V, I _C =150mA	40	120	40	120		
h _{FE}	V _{CE} =1.0V, I _C =150mA	20	-	20	-		
h _{FE}	V _{CE} =10V, I _C =500mA	20	-	-	-		
hFE	V _{CE} =10V, I _C =500mA	-	-	25	-		

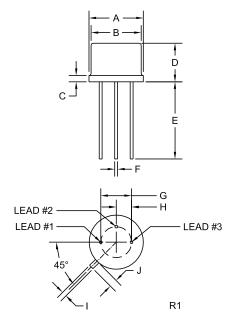




SILICON NPN TRANSISTORS

ELECTRICA	L CHARACTERISTICS - Continued: (T _A =25°C)	<u>2N2</u>	218	<u>2N2</u>	218A	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
fT	V _{CE} =20V, I _C =20mA	250	-	250	-	MHz
Cob	V _{CB} =10V, f=100kHz	-	8.0	-	8.0	pF
ton	V _{CC} =30V, I _C =150mA, I _B =15mA	-	35	-	35	ns
toff	V _{CC} =30V, I _C =150mA, I _{B1} =I _{B2} =15mA	-	285	-	285	ns

TO-39 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIM	ETERS
SYMBOL	MIN	MAX	MIN	MAX
A (DIA)	0.335	0.370	8.51	9.40
B (DIA)	0.315	0.335	8.00	8.51
С	-	0.040	-	1.02
D	0.240	0.260	6.10	6.60
Е	0.500	-	12.70	-
F (DIA)	0.016	0.021	0.41	0.53
G (DIA)	0.200		5.	08
Н	0.100		2.54	
	0.028	0.034	0.71	0.86
J	0.029	0.045	0.74	1.14

TO-39 (REV: R1)

LEAD CODE:

1) Emitter 2) Base

3) Collector

MARKING: FULL PART NUMBER

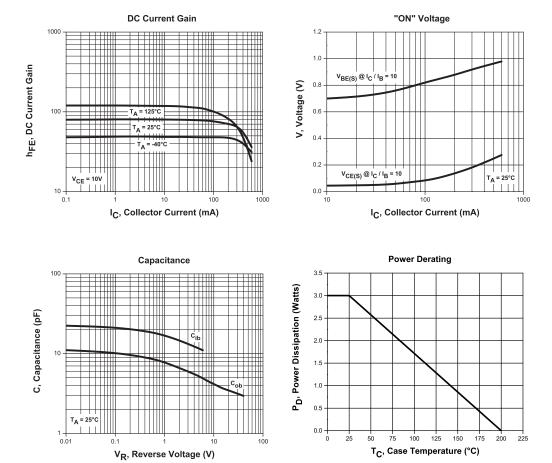
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R1 (31-July 2013)



2N2218 2N2218A

SILICON NPN TRANSISTORS



TYPICAL ELECTRICAL CHARACTERISTICS

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R1 (31-July 2013)

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

ss your design challenges.

· Custom product packing

- Special wafer diffusions
- 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

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Product End of Life Notification

PDN ID:	PDN01195
Notification Date:	10/20/21
Last Buy Date:	
Last Shipment Date	10/20/22

Summary: The CP225 wafer process is 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 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 Management Process. 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
CP225-2N2218A-WN	N/A
2N2218A	N/A
2N2221A	N/A

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.

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.

Mouser Electronics

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Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Central Semiconductor: 2N2218A TIN/LEAD