

2N2218A TO-5**SILICON
NPN TRANSISTOR****TO-5 CASE**www.centralemi.com**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 2N2218A TO-5 is a silicon NPN transistor manufactured by the epitaxial planar process, and designed for small signal general purpose and switching applications.

MARKING CODE: 2N2218A**MAXIMUM RATINGS:** ($T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	75	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	6.0	V
Continuous Collector Current	I_C	800	mA
Power Dissipation	P_D	800	mW
Power Dissipation ($T_C=25^\circ\text{C}$)	P_D	3.0	W
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +200	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CBO}	$V_{CB}=60\text{V}$		10	nA
I_{CEV}	$V_{CE}=60\text{V}, V_{EB}=3.0\text{V}$		10	nA
I_{EBO}	$V_{EB}=3.0\text{V}$		10	nA
BV_{CBO}	$I_C=10\mu\text{A}$	75		V
BV_{CEO}	$I_C=10\text{mA}$	40		V
BV_{EBO}	$I_E=10\mu\text{A}$	6.0		V
$V_{CE(SAT)}$	$I_C=150\text{mA}, I_B=15\text{mA}$		0.3	V
$V_{CE(SAT)}$	$I_C=500\text{mA}, I_B=50\text{mA}$		1.0	V
$V_{BE(SAT)}$	$I_C=150\text{mA}, I_B=15\text{mA}$		1.2	V
$V_{BE(SAT)}$	$I_C=500\text{mA}, I_B=50\text{mA}$		2.0	V
h_{FE}	$V_{CE}=10\text{V}, I_C=100\mu\text{A}$	20		
h_{FE}	$V_{CE}=10\text{V}, I_C=1.0\text{mA}$	25		
h_{FE}	$V_{CE}=10\text{V}, I_C=10\text{mA}$	35		
h_{FE}	$V_{CE}=10\text{V}, I_C=150\text{mA}$	40	120	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=150\text{mA}$	20		
h_{FE}	$V_{CE}=10\text{V}, I_C=500\text{mA}$	25		
f_T	$V_{CE}=20\text{V}, I_C=20\text{mA}$	250		MHz
C_{ob}	$V_{CB}=10\text{V}, f=100\text{kHz}$		8.0	pF
t_{on}	$V_{CC}=30\text{V}, I_C=150\text{mA}, I_B=15\text{mA}$		35	ns
t_{off}	$V_{CC}=30\text{V}, I_C=150\text{mA}, I_{B1}=I_{B2}=15\text{mA}$		285	ns

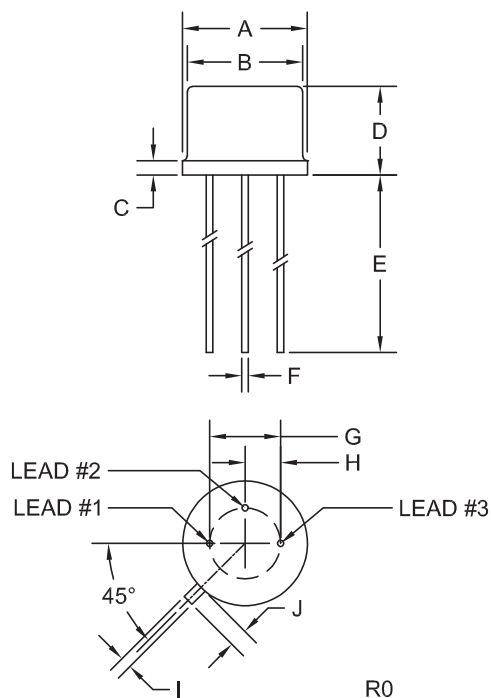
R0 (25-April 2014)

2N2218A TO-5

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TO-5 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.335	0.370	8.51	9.40
B (DIA)	0.315	0.335	8.00	8.51
C	-	0.040	-	1.02
D	0.240	0.260	6.10	6.60
E	1.500	1.752	38.1	44.5
F (DIA)	0.016	0.021	0.41	0.53
G (DIA)	0.200		5.08	
H	0.100		2.54	
I	0.028	0.034	0.71	0.86
J	0.029	0.045	0.74	1.14

TO-5 (REV: R0)

LEAD CODE:

- 1) Emitter
- 2) Base
- 3) Collector

MARKING CODE: 2N2218A

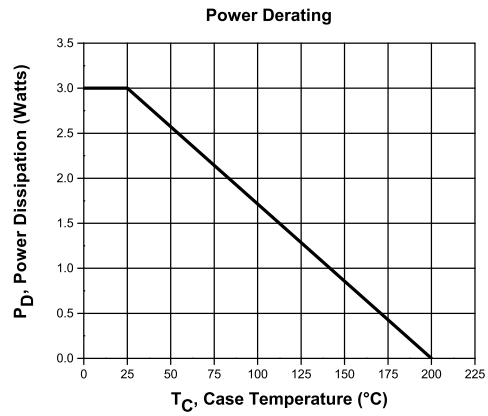
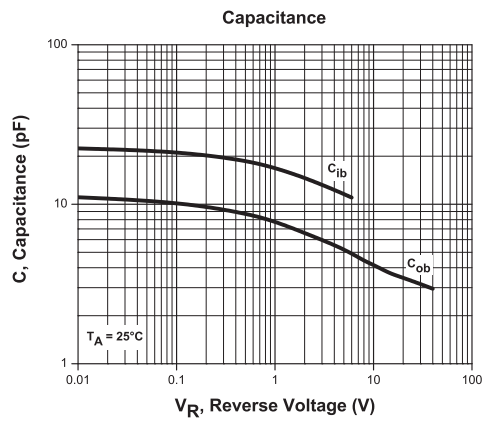
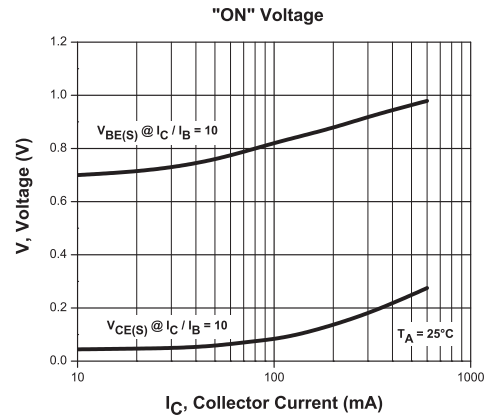
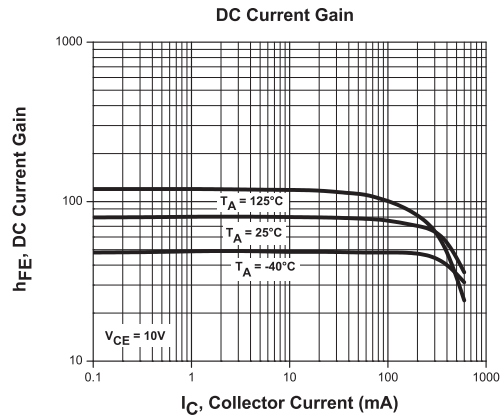
R0 (25-April 2014)

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TYPICAL ELECTRICAL CHARACTERISTICS



R0 (25-April 2014)

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

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).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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Worldwide Distributors:
www.centalsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centalsemi.com/terms

Product End of Life Notification

PDN ID:	PDN01015
Notification Date:	12/14/15
Last Buy Date:	6/14/16
Last Shipment Date	12/14/16

Summary: All devices manufactured in the TO-5 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
ACY18	N/A
ACY20	N/A
BSY32	N/A
CEN1285	N/A
2N1038	N/A
2N1039	N/A
2N1040	N/A
2N1131 TO-5	2N1131
2N1131A TO-5	2N1131A
2N1132 TO-5	2N1132
2N1132 TO-5 W/GOLD	2N1132
2N1175	N/A
2N1191	N/A
2N1194	N/A
2N1301	N/A
2N1302	N/A
2N1303	N/A
2N1304	N/A
2N1305	N/A
2N1306	N/A
2N1307	N/A
2N1308	N/A
2N1309	N/A
2N1310	N/A
2N1311	N/A
2N1373	N/A
2N1377	N/A
2N1499A	N/A
2N1613 TO-5	2N1613
2N2043	N/A
2N2160	N/A
2N2171	N/A
2N2218A TO-5	2N2218A
2N2219 TO-5	2N2219A
2N2219A TO-5	2N2219A
2N2374	N/A
2N2382	N/A
2N2904 TO-5	2N2904A

*** 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.



<http://www.centrasemi.com>

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PDN ID:	PDN01015
Notification Date:	12/14/15
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*** CONTINUED FROM PRIOR PAGE ***

Central Part Number	Replacement
2N2904A TO-5	2N2904A
2N2905 TO-5	2N2905A
2N3019 TO-5	2N3019
2N3053 TO-5	2N3053
2N3133 TO-5	2N3133
2N3467 TO-5	2N3467
2N3725 TO-5	2N3725
2N388A	N/A
2N396A	N/A
2N398A	N/A
2N4033 TO-5	2N4033
2N4036 TO-5	2N4036
2N404	N/A
2N404A	N/A
2N414	N/A
2N446	N/A
2N491B	N/A
2N492	N/A
2N508A	N/A
2N525	N/A
2N526	N/A
2N527	N/A
2N5416 TO-5	N/A
2N650	N/A
2N697 TO-5	N/A
2N699 TO-5	N/A
2SB492	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. Please email your requests to engineering@centrasemi.com.

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