

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.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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COMPLEMENTARY SILICON TRANSISTORS

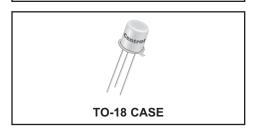


www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6430 series devices are complementary small signal silicon transistors manufactured by the epitaxial planar process, designed for high voltage amplifier applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C unless otherwise	e noted)	2N6430	2N6431		
	SYMBOL	2N6432	2N6433	UNITS	
Collector-Base Voltage	V_{CBO}	200	300	V	
Collector-Emitter Voltage	V_{CEO}	200	300	V	
Emitter-Base Voltage (NPN)	V_{EBO}	6.	0	V	
Emitter-Base Voltage (PNP)	V_{EBO}	5.	0	V	
Continuous Collector Current	IC	50	00	mA	
Power Dissipation (T _C =25°C)	P_{D}	1.	8	W	
Power Dissipation	P_{D}	50	00	mW	
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to	+200	°C	
Thermal Resistance	$\Theta_{\sf JA}$	0.3	35	°C/mW	
Thermal Resistance	Θ JC	97	.2	°C/W	

ELECTRICAL CHARACTERISTICS: (T _A =25°C)		2N6430 2N6431			2N6432 2N6433	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
ICBO	V _{CB} =160V (2N6430, 2N6432)	-	100	-	250	nA
I _{CBO}	V _{CB} =200V (2N6431, 2N6433)	-	100	-	250	nA
I _{EBO}	V _{EB} =4.0V	-	100	-	-	nA
I _{EBO}	V _{EB} =3.0V	-	-	-	100	nA
BV_{CBO}	I _C =100μA (2N6430, 2N6432)	200	-	200	-	V
BV _{CBO}	I _C =100μA (2N6431, 2N6433)	300	-	300	-	V
BV _{CEO}	I _C =1.0mA (2N6430, 2N6432)	200	-	200	-	V
BV _{CEO}	I _C =1.0mA (2N6431, 2N6433)	300	-	300	-	V
BVEBO	I _E =100μA	6.0	-	5.0	-	V
V _{CE(SAT)}	I _C =20mA, I _B =2.0mA	-	0.5	-	0.5	V
V _{BE(SAT)}	I _C =20mA, I _B =2.0mA	-	0.9	-	0.9	V
h _{FE}	V _{CE} =10V, I _C =1.0mA	25	-	25	-	
h _{FE}	V _{CE} =10V, I _C =10mA	40	-	40	-	
h _{FE}	V_{CE} =10V, I_{C} =30mA	50	200	30	150	

R2 (3-April 2018)

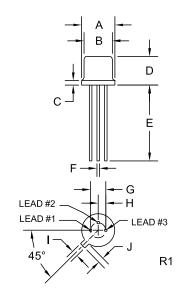
COMPLEMENTARY SILICON TRANSISTORS



ELECTRICAL CHARACTERISTICS - Continued: (T_A=25°C) 2N6430

	·······························	2N6430 2N6431		2N6432 2N6433		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
f_{T}	V_{CE} =20V, I_{C} =10mA, f=100MHz	50	200	-	-	MHz
fT	V_{CE} =20V, I_{C} =10mA, f=20MHz	-	-	50	-	MHz
Cob	V _{CB} =20V, I _F =0, f=1.0MHz	-	4.0	-	6.0	pF

TO-18 CASE - MECHANICAL OUTLINE



DIMENSIONS					
	INC	HES	MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A (DIA)	0.209	0.230	5.31	5.84	
B (DIA)	0.178	0.195	4.52	4.95	
С	-	0.030	-	0.76	
D	0.170	0.210	4.32	5.33	
E	0.500	-	12.70	-	
F (DIA)	0.016	0.019	0.41	0.48	
G (DIA)	0.100		2.54		
Н	0.050		1.27		
I	0.036	0.046	0.91	1.17	
J	0.028	0.048	0.71	1.22	

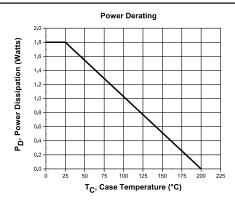
TO-18 (REV: R1)

LEAD CODE:

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

MARKING:

FULL PART NUMBER

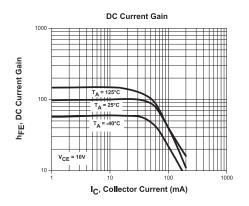


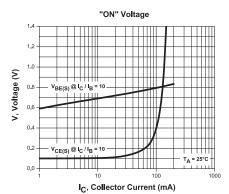
R2 (3-April 2018)

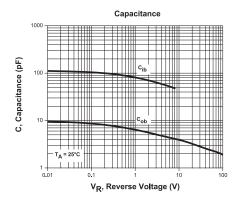




NPN TYPICAL ELECTRICAL CHARACTERISTICS



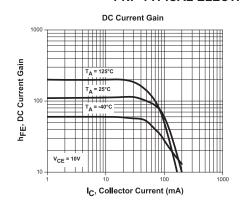


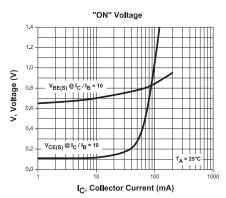


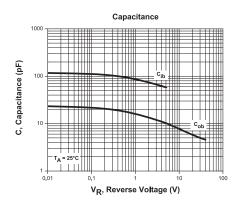




PNP TYPICAL ELECTRICAL CHARACTERISTICS







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 guick 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).
- 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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