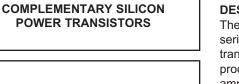
NPN 2N5629 2N5630 2N6029 2N6030





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N5629, 2N6029 series devices are complementary silicon power transistors, manufactured by the epitaxial base process, designed for high voltage and high power amplifier applications.

2N5630

MARKING: FULL PART NUMBER

2N5629

Central	
TO-3 CASE	

MAYIMIIM R	ATINGS: (T _C =25°C)	SYMBOL	2N6029	2N6030	UNITS
Collector-Bas		V _{CBO}	100	120	V
Collector-Emi	tter Voltage	V _{CEO}	100	120	V
Emitter-Base	Voltage	V_{EBO}	7.	0	V
Continuous Collector Current		IC	1	6	Α
Peak Collector Current		I _{CM}	2	0	Α
Continuous Base Current		Ι _Β	5.	0	Α
Power Dissipation		P_{D}	20	00	W
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +200		°C
Thermal Resi	stance	⊚¹C	8.0	75	°C/W
ELECTRICAL	CHARACTERISTICS: (T _C =25°C ur	aless otherwise	noted)		
SYMBOL	TEST CONDITIONS	MIN	MA	ΑX	UNITS
ICBO	V _{CB} =Rated V _{CBO}		1.	0	mA
^I CEX	V _{CE} =Rated V _{CEO} , V _{EB} =1.5V		1.	0	mA
^I CEX	V _{CE} =Rated V _{CEO} , V _{EB} =1.5V, T _C =	=150°C	5.	0	mA
I _{CEO}	V _{CE} =½Rated V _{CEO}		1.	0	mA
^I EBO	V _{EB} =7.0V		1.	0	mA
BVCEO	I _C =200mA (2N5629, 2N6029)	100			V
BVCEO	I _C =200mA (2N5630, 2N6030)	120			V
V _{CE} (SAT)	I _C =10A, I _B =1.0A		1.	0	V
VCE(SAT)	I _C =16A, I _B =4.0A		2.	0	V
V _{BE} (SAT)	I _C =10A, I _B =1.0A		1.	8	V
V _{BE} (ON)	V_{CE} =2.0V, I_{C} =8.0A		1.	5	V
hFE	V _{CE} =2.0V, I _C =8.0A (2N5629, 2N60	29) 25	10	00	
hFE	V _{CE} =2.0V, I _C =8.0A (2N5630, 2N60	30) 20	8	0	
hFE	V _{CE} =2.0V, I _C =16A	4.0			
h _{fe}	V_{CE} =10V, I_{C} =4.0A, f=1.0kHz	15			
f _T	V_{CE} =20V, I_{C} =1.0A, f=500kHz	1.0			MHz
C _{ob}	V_{CB} =10V, I_E =0, f=100kHz (NPN)		50	00	pF
C _{ob}	V_{CB} =10V, I_E =0, f=100kHz (PNP)		1.	0	nF

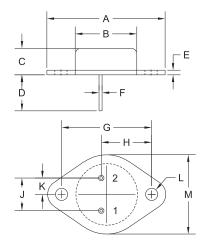
R1 (19-March 2014)

2N5629 2N5630 NPN 2N6029 2N6030

COMPLEMENTARY SILICON POWER TRANSISTORS



TO-3 CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
Α	1.516	1.573	38.50	39.96				
B (DIA)	0.748	0.875	19.00	22.23				
С	0.250	0.450	6.35	11.43				
D	0.433	0.516	11.00	13.10				
Е	0.054	0.065	1.38	1.65				
F	0.035	0.045	0.90	1.15				
G	1,177	1.197	29.90	30.40				
Н	0.650	0.681	16.50	17.30				
J	0.420	0.440	10.67	11.18				
K	0.205	0.225	5.21	5.72				
L (DIA)	0.151	0.172	3.84	4.36				
М	0.984	1.050	25.00	26.67				

TO-3 (REV: R2)

R2

LEAD CODE:

- 1) Base

2) Emitter Case) Collector

MARKING:

FULL PART NUMBER

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).
- 2. 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

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.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.centralsemi.com/terms

www.centralsemi.com (001)