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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.

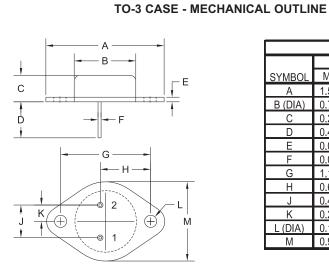
MARKING: FULL PART NUMBER

MAXIMUM RATING Collector-Base Volta Collector-Emitter Vo Emitter-Base Voltag Continuous Collecto Peak Collector Curr Continuous Base Co Power Dissipation Operating and Stora Thermal Resistance	age Itage e r Current ent urrent urrent	SYMBOL VCBO VCEO VEBO IC ICM IB PD TJ, Tstg Θ JC	1 2 5 20 -65 to	2N5630 2N6030 120 120 0 6 6 0 0 0 0 +200 875	UNITS V V A A A W °C °C/W
SYMBOL TEST ICBO VCB ICEX VCE ICEX VCE ICEA VCE ICEO VCE ICEO VCE IEBO VEB BVCEO IC=2 VCE(SAT) IC=1 VBE(SAT) IC=1 VBE(SAT) IC=1 VBE(ON) VCE hFE VCE	RACTERISTICS: $(T_C=25^{\circ}C \text{ un})$ Rated V _{CBO} =Rated V _{CEO} , V _{EB} =1.5V =Rated V _{CEO} , V _{EB} =1.5V, T _C = =½Rated V _{CEO} =7.0V 00mA (2N5629, 2N6029) 00mA (2N5630, 2N6030) 00A, I _B =1.0A 6A, I _B =4.0A 0A, I _B =1.0A 6A, I _B =4.0A 2.0V, I _C =8.0A (2N5629, 2N602) =2.0V, I _C =8.0A (2N5630, 2N603) =2.0V, I _C =8.0A (2N5630, 2N603) =2.0V, I _C =1.0A, f=1.0kHz =20V, I _C =1.0A, f=500kHz =10V, I _E =0, f=100kHz (NPN) =10V, I _F =0, f=100kHz (PNP)	MIN 150°C 100 120 29) 25	M, 1 5 1 1 1 2 1 1 1 1 8 5	AX 0 0 0 0 0 0 0 0 0 0 0 0 0	UNITS mA mA mA MA V V V V V V V MHz pF nF

R1 (19-March 2014)



COMPLEMENTARY SILICON POWER TRANSISTORS



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
А	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				
E	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

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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 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

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

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