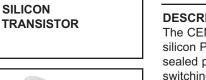


PNP TRANSISTOR





www.centralsemi.com

DESCRIPTION:

Semiconductor Corp.

Cen

The CENTRAL SEMICONDUCTOR 2N1131 is a silicon PNP transistor mounted in a hermetically sealed package designed for medium current switching applications.

MARKING: FULL PART NUMBER

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

		SYMBOL		UNITS			
Collector-Base Voltage		VCBO	50	V			
Collector-Emitter Voltage (R_{BE} =10 Ω)		VCER	50	V			
Collector-Emitter Voltage		V _{CEO}	35	V			
Emitter-Base Voltage		V _{EBO}	5.0	V			
Continuous Collector Current		IC	0.6	А			
Power Dissipation (T _C =25°C)		PD	2.0	W			
Power Dissipation		PD	0.6	W			
Operating and Storage Junction Temperature		т _Ј , т _{stg}	-65 to +200	°C			
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)							
SYMBOL	TEST CONDITIONS V _{CB} =30V	MIN	MAX 1.0	UNITS μΑ			
I _{CBO}	V _{CB} =30V, T _A =150°C		100	μA			
I _{CBO}	V _{CB} =50V		100	μA			
I _{CBO}	02		100	μA			
I _{EBO}	V _{EB} =2.0V	50	100				
BVCBO	I _C =100μA	50		V			
BVCER	I _C =100mA, R _{BE} =10Ω	50		V			
BVCEO	I _C =100mA	35		V			
BVEBO	Ι _Ε =100μΑ	5.0		V			
V _{CE(SAT)}	I _C =150mA, I _B =15mA		1.5	V			
V _{BE(SAT)}	I _C =150mA, I _B =15mA		1.3	V			
h _{FE}	V _{CE} =10V, I _C =5.0mA	15					
h _{FE}	V _{CE} =10V, I _C =150mA	20	45				
fT	V _{CE} =10V, I _C =50mA, f=20MHz	50		MHz			
Cob	V _{CB} =10V, I _E =0, f=100kHz		45	pF			
C _{ib}	V_{EB} =0.5V, I _C =0, f=100kHz		80	pF			

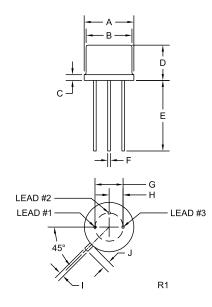
R0 (3-April 2013)



2N1131

SILICON PNP TRANSISTOR

TO-39 CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
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			
E	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)							

TO-39 (REV: R1)

LEAD CODE:

1) Emitter

2) Base

3) Collector

MARKING: FULL PART NUMBER

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R0 (3-April 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 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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