

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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PN4033

PNP SILICON TRANSISTOR

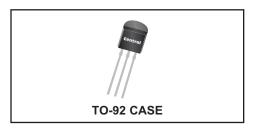


www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR PN4033 type is a PNP silicon transistor manufactured by the epitaxial planar process, designed for high current general purpose amplifier applications.





 I_C =500mA, I_{B1} = I_{B2} =50mA

MAXIMUM I	RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage		V_{CBO}	80	V
Collector-Emitter Voltage		V _{CEO}	80	V
Emitter-Base Voltage		V_{EBO}	5.0	V
Continuous Collector Current		IC	1.0	Α
Power Dissipation		P_{D}	625	mW
Operating and Storage Junction Temperature		$T_{J_{i}}T_{stg}$	-65 to +150	°C
Thermal Resistance		$\Theta_{\sf JA}$	200	°C/W
	AL CHARACTERISTICS: (TA=25°C t			
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	V _{CB} =60V		50	nA
I _{CBO}	V _{CB} =60V, T _A =150°C		50	μA
I _{EBO}	V _{EB} =5.0V		10	μA
BV _{CBO}	I _C =10μA	80		V
0_0	I _C =10mA	80		V
	I _E =10μA	5.0		V
0_(0, 11)	I _C =150mA, I _B =15mA		0.15	V
VCE(SAT)	I _C =500mA, I _B =50mA		0.50	V
V _{BE} (SAT)	I _C =150mA, I _B =15mA		0.90	V
V _{BE(ON)}	V_{CE} =0.5V, I_{C} =500mA		1.10	V
h _{FE}	V_{CE} =5.0V, I_{C} =0.1mA	75		
h _{FE}	V_{CE} =5.0V, I_{C} =100mA	100	300	
h _{FE}	V_{CE} =5.0V, I_{C} =500mA	70		
hFE	V_{CE} =5.0V, I_{C} =1.0A	25		
f _T	V_{CE} =10V, I_{C} =50mA	100	400	MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz		20	pF
C _{ib}	V _{EB} =0.5V, I _C =0, f=1.0MHz		110	pF
ton	I _C =500mA, I _{B1} =50mA		100	ns
t _s	I _C =500mA, I _{B1} =I _{B2} =50mA		350	ns

ns

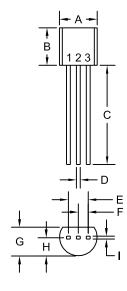
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PN4033

PNP SILICON TRANSISTOR



TO-92 CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A (DIA)	0.175	0.205	4.45	5.21			
В	0.170	0.210	4.32	5.33			
С	0.500	-	12.70	-			
D	0.016	0.022	0.41	0.56			
Е	0.100		2.54				
F	0.050		1.27				
G	0.125	0.165	3.18	4.19			
Н	0.080	0.105	2.03	2.67			
	0.015		0.38				

TO-92 (REV: R1)

LEAD CODE:

- 1) Emitter 2) Base 3) Collector

MARKING:

R1

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

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