BC212 BC212A BC212B

SILICON PNP TRANSISTORS

TO-92 CASE



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BC212 series are silicon PNP transistors designed for low noise, high gain amplifier applications.



MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	IC	200	mA
Power Dissipation	P_{D}	300	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘιΔ	416	°C\W

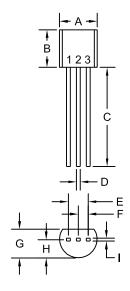
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ELECTRICA	L CHARACTERISTICS: (T _A =25°C ur	nless otherwise n	oted)	
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =30V		15	nA
I _{EBO}	V _{EB} =4.0V		15	nA
BV CBO	I _C =10μA	60		V
BV CEO	I _C =2.0mA	50		V
BVEBO	I _E =10μA	5.0		V
V _{CE(SAT)}	I _C =10mA, I _B =500μA		0.25	V
V _{CE(SAT)}	I _C =100mA, I _B =5.0mA		0.60	V
V _{BE} (SAT)	I _C =100mA, I _B =5.0mA		1.4	V
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =2.0mA	0.60	0.72	V
h _{FE}	V _{CE} =5.0V, I _C =2.0mA (BC212)	60	400	
hFE	V _{CE} =5.0V, I _C =2.0mA (BC212A)	100	300	
h _{FE}	V _{CE} =5.0V, I _C =2.0mA (BC212B)	200	400	
f_T	V_{CE} =5.0V, I_{C} =10mA, f=100MHz	200		MHz
C_{ob}	V_{CB} =10V, I_{C} =0, f=1.0MHz		6.0	pF
NF	V_{CE} =5.0V, I_{C} =200 μ A,			
	f=1.0kHz, R_S =2.0k Ω		10	dB

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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			
E	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			
I	0.015		0.38				

TO-92 (REV: R1)

LEAD CODE:

- 1) Collector

R1

2) Base 3) Emitter

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

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