

BC394

SILICON

NPN TRANSISTOR

TO-18 CASE

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BC394 is a silicon NPN transistor designed for general purpose amplifier applications.

MARKING: FULL PART NUMLBER

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	VCBO	180	V
Collector-Emitter Voltage	V _{CEO}	180	V
Emitter-Base Voltage	V _{EBO}	6.0	V
Continuous Collector Current	ΙC	100	mA
Power Dissipation	PD	400	mW
Power Dissipation (T _C =25°C)	PD	1.4	W
Operating and Storage Junction Temperature	T _{J,} T _{stg}	-65 to +200	°C
Thermal Resistance	Θ _{JA}	437.5	°C/W
Thermal Resistance	ΘJC	125	°C/W
ELECTRICAL CHARACTERISTICS: (T _A =25°C u	unless otherwise no	oted)	

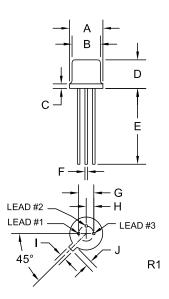
	L CHARACTERISTICS: (TA=25°C)		,	
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	V _{CB} =100V		50	nA
I _{СВО}	V _{CB} =100V, T _A =150°C		50	μA
BVCBO	Ι _C =100μΑ	180		V
BVCEO	I _C =10mA	180		V
BVEBO	I _E =100μA	6.0		V
V _{CE(SAT)}	I _C =10mA, I _B =1.0mA		0.3	V
V _{BE(SAT)}	I _C =10mA, I _B =1.0mA		0.9	V
h _{FE}	V _{CE} =10V, I _C =10mA	30		
f _T	V _{CE} =10V, I _C =10mA, f=10MHz	50		MHz





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TO-18 CASE - MECHANICAL OUTLINE

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.209	0.230	5.31	5.84		
B (DIA)	0.178	0.195	4.52	4.95		
С	-	0.030	-	0.76		
D	0.170	0.210	4.32	5.33		
E	0.500	-	12.70	-		
F (DIA)	0.016	0.019	0.41	0.48		
G (DIA)	0.100		2.54			
Н	0.050		1.27			
Ι	0.036	0.046	0.91	1.17		
J	0.028	0.048	0.71	1.22		
TO-18 (REV: R1)						

LEAD CODE:

1) Emitter

2) Base

3) Collector

MARKING: FULL PART NUMBER

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R0 (7-October 2019)

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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