

BC107,A,B
BC108B,C
BC109B,C

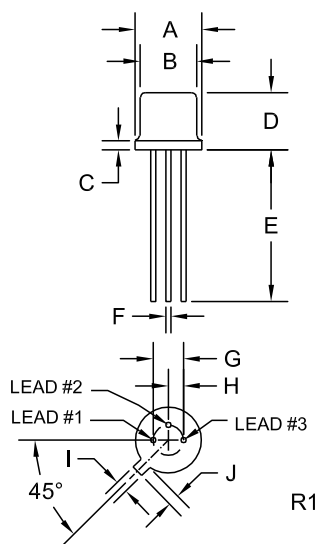
NPN SILICON TRANSISTOR



ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
h_{fe}	$V_{CE}=5.0\text{V}$, $I_C=2.0\text{mA}$, $f=1.0\text{kHz}$ (BC107)	125		500	
h_{fe}	$V_{CE}=5.0\text{V}$, $I_C=2.0\text{mA}$, $f=1.0\text{kHz}$ (BC107A)	125		260	
h_{fe}	$V_{CE}=5.0\text{V}$, $I_C=2.0\text{mA}$, $f=1.0\text{kHz}$ (BC107B, BC108B, BC109B)	240		500	
h_{fe}	$V_{CE}=5.0\text{V}$, $I_C=2.0\text{mA}$, $f=1.0\text{kHz}$ (BC108C)		500		
h_{fe}	$V_{CE}=5.0\text{V}$, $I_C=2.0\text{mA}$, $f=1.0\text{kHz}$ (BC109C)	450		900	
f_T	$V_{CE}=5.0\text{V}$, $I_C=10\text{mA}$, $f=100\text{MHz}$	150			MHz
C_{ob}	$V_{CB}=10\text{V}$, $I_E=0$, $f=1.0\text{MHz}$			4.5	pF
NF	$V_{CE}=5.0\text{V}$, $I_C=0.2\text{mA}$, $R_g=2.0\text{k}\Omega$, $B=200\text{Hz}$, $f=1.0\text{kHz}$ (BC107, BC108)			10	dB
NF	$V_{CE}=5.0\text{V}$, $I_C=0.2\text{mA}$, $R_g=2.0\text{k}\Omega$, $B=200\text{Hz}$, $f=1.0\text{kHz}$ (BC109)			4.0	dB

TO-18 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.209	0.230	5.31	5.84
B (DIA)	0.178	0.195	4.52	4.95
C	-	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	
H	0.050		1.27	
I	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

R1 (16-August 2012)

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 quick 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).

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