

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

BC327
BC327A
BC328

PNP SILICON TRANSISTOR

JEDEC TO-92-18R CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR BC327, BC327A, BC328 types are Silicon PNP Transistors designed for general purpose switching and amplifier applications.

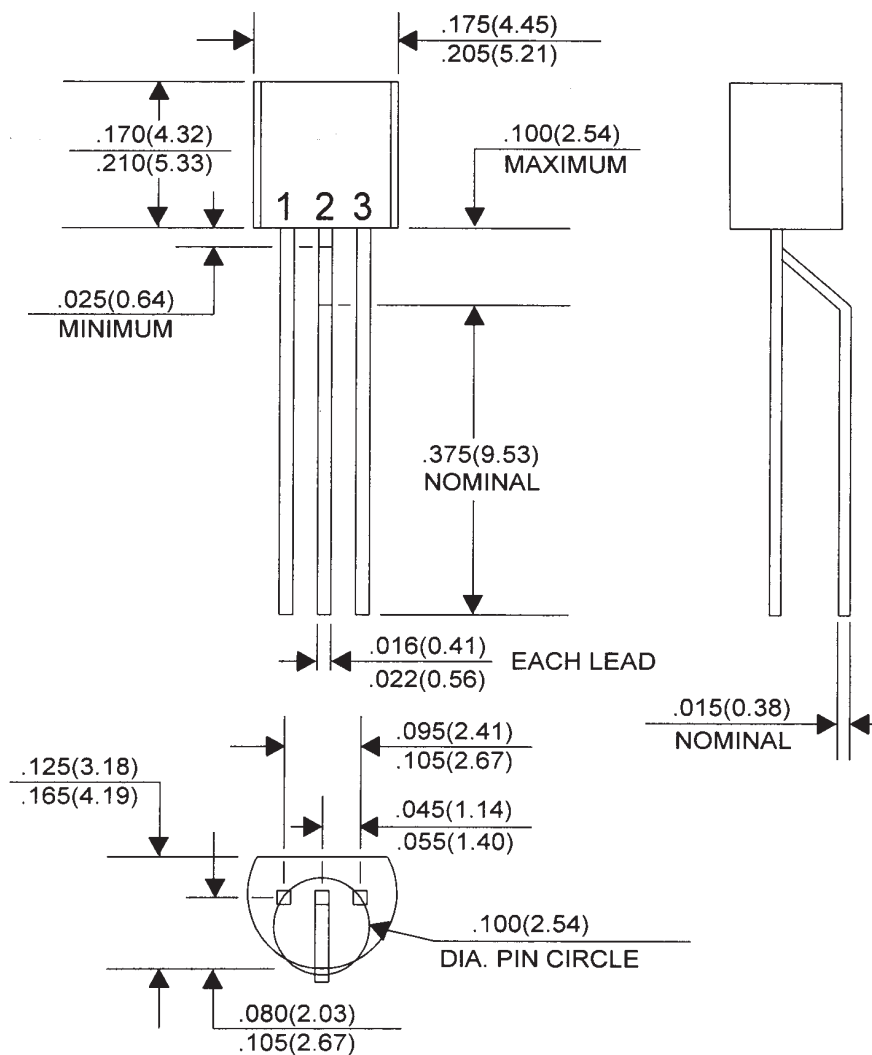
MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

	SYMBOL	BC327	BC327A	BC328	UNITS
Collector-Base Voltage	V_{CBO}	50	60	30	V
Collector-Emitter Voltage	V_{CEO}	45	60	25	V
Emitter-Base Voltage	V_{EBO}		5.0		V
Collector Current	I_C		500		mA
Peak Collector Current	I_{CM}		1.0		A
Base Current	I_B		100		mA
Peak Base Current	I_{BM}		200		mA
Power Dissipation	P_D		625		mW
Operating and Storage					
Junction Temperature	T_J, T_{stg}		-65 to +150		$^\circ\text{C}$
Thermal Resistance	Θ_{JA}		200		$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{CBO}	$V_{CB}=20\text{V}$			100	nA
I_{CBO}	$V_{CB}=20\text{V}, T_A=150^\circ\text{C}$			5.0	μA
I_{EBO}	$V_{EB}=5.0\text{V}$			100	nA
$V_{CE(SAT)}$	$I_C=500\text{mA}, I_B=50\text{mA}$			0.7	V
$V_{BE(ON)}$	$V_{CE}=1.0\text{V}, I_C=500\text{mA}$			1.2	V
h_{FE}	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC327, BC328)	100		600	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC327A)	100		400	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC327-16, BC328-16)	100		250	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC327-25, BC328-25)	160		400	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC327-40, BC328-40)	250		600	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=500\text{mA}$ (All Types)	40			
f_T	$V_{CE}=5.0\text{V}, I_C=10\text{mA}, f=100\text{MHz}$	80			MHz
C_c	$V_{CB}=10\text{V}, I_E=0, f=1.0\text{MHz}$		10		pF

(See Reverse Side)

JEDEC TO-92-18R - MECHANICAL OUTLINE

All Dimensions in Inches (mm).

LEAD CODE:

- 1) COLLECTOR
- 2) BASE
- 3) EMITTER

CentralTM
Semiconductor Corp.
www.centrasemi.com

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).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms