

CentralTM

Semiconductor Corp.

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 Phone (631) 435-1110 FAX (631) 435-1824
 Manufacturer of World Class Discrete Semiconductors
www.centrasemi.com

2N5447
2N5448

PNP SILICON TRANSISTOR

JEDEC TO-92-18R CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N5447 and 2N5448 types are Epitaxial Planar Epoxy Molded Silicon PNP Transistors designed for audio frequency and amplifier applications.

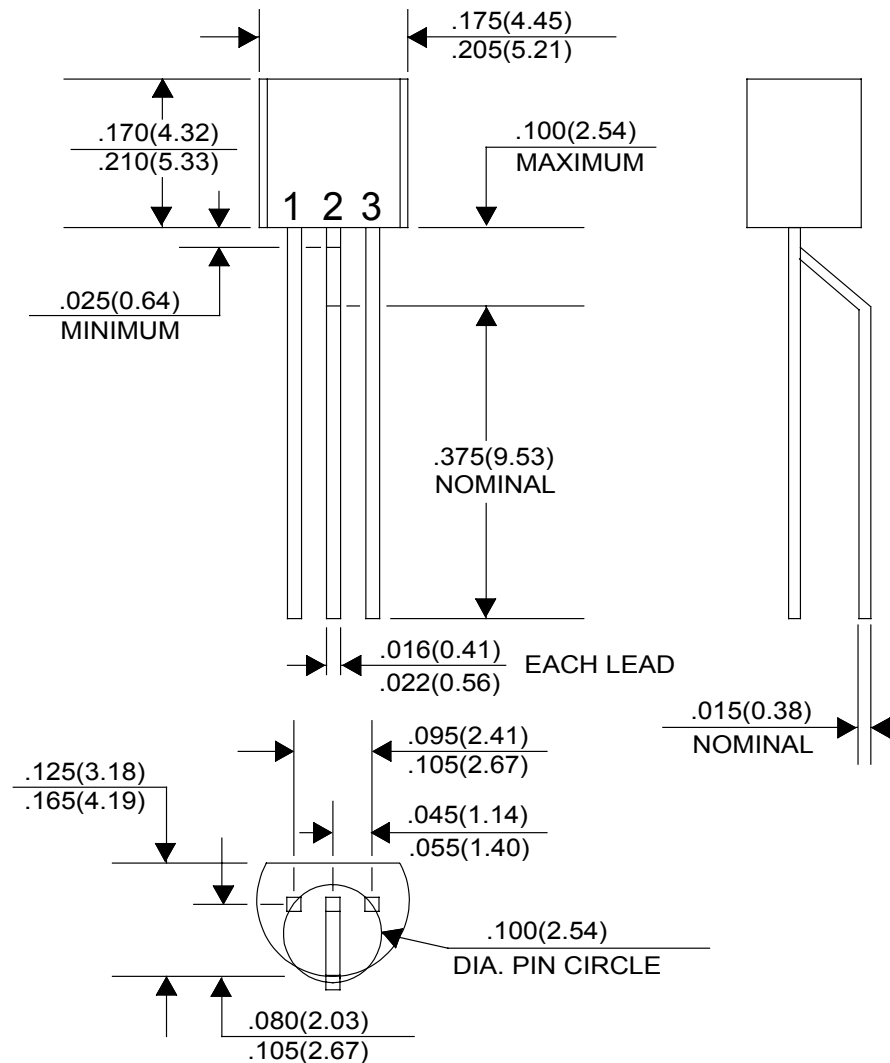
MAXIMUM RATINGS:

	SYMBOL	2N5447	2N5448	UNITS
Collector-Base Voltage	V_{CBO}	40	50	V
Collector-Emitter Voltage	V_{CEO}	25	30	V
Emitter-Base Voltage	V_{EBO}	5.0	5.0	V
Collector Current	I_C	200	200	mA
Power Dissipation	P_D	625	625	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150		°C
Thermal Resistance	Θ_{JA}	200		°C/W

ELECTRICAL CHARACTERISTICS:

SYMBOL	TEST CONDITIONS	2N5447		2N5448		UNITS
		MIN	MAX	MIN	MAX	
I_{CBO}	$V_{CB}=20V$		100		100	nA
I_{EBO}	$V_{EB}=3.0V$		100		100	nA
BV_{CBO}	$I_C=100\mu A$	40		50		V
BV_{CEO}	$I_C=10mA$	25		30		V
BV_{EBO}	$I_C=100\mu A$	5.0		5.0		V
$V_{CE(SAT)}$	$I_C=50mA, I_B=5.0mA$		0.25		0.25	V
$V_{BE(ON)}$	$V_{CE}=5.0V, I_C=50mA$	0.6	1.0	0.6	1.0	V
h_{FE}	$V_{CE}=5.0V, I_C=50mA$	60	300	30	150	
C_{cb}	$V_{CB}=10V, I_E=0, f=1.0MHz$		12		12	pF
f_T	$V_{CE}=5.0V, I_C=50mA, f=20MHz$	100		100		MHz

(SEE REVERSE SIDE)

JEDEC TO-92-18R CASE - MECHANICAL OUTLINE

All Dimensions in Inches (mm).

LEAD CODE:

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

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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

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