

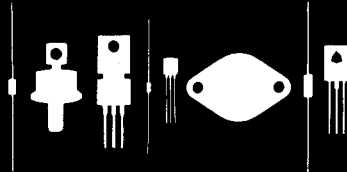
Central
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145 Adams Avenue
Hauppauge, New York 11788



2N5249,A T0-92 (ECB)
PN5249,A T0-92 (EBC)

NPN SILICON TRANSISTORS

JEDEC T0-92 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N5249 series types are NPN silicon transistors manufactured by the epitaxial planar process designed for high gain amplifier applications.

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

	SYMBOL		UNIT
Collector-Base Voltage	V_{CB0}	70	V
Collector-Emitter Voltage	V_{CE0}	50	V
Emitter-Base Voltage	V_{EB0}	5.0	V
Collector Current	I_C	100	mA
Power Dissipation	P_D	625	mW
Operating and Storage Junction Temperature	T_J, T_{STG}	-65 TO +150	$^\circ\text{C}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_{CB0}	$V_{CB}=50\text{V}$		30	nA
I_{CB0}	$V_{CB}=50\text{V}, T_A=100^\circ\text{C}$		10	μA
I_{CES}	$V_{CB}=50\text{V}$		30	nA
I_{EBO}	$V_{EB}=5.0\text{V}$		50	nA
BV_{CB0}	$I_C=10\mu\text{A}$	70		V
BV_{CE0}	$I_C=10\text{mA}$	50		V
BV_{EBO}	$I_E=10\mu\text{A}$	5.0		V
$V_{CE(SAT)}$	$I_C=10\text{mA}, I_B=1.0\text{mA}$		0.125	V
$V_{BE(ON)}$	$V_{CE}=10\text{V}, I_C=2.0\text{mA}$	0.5	0.9	V
$V_{BE(SAT)}$	$I_C=10\text{mA}, I_B=1.0\text{mA}$		0.78	V
h_{FE}	$V_{CE}=5.0\text{V}, I_C=2.0\text{mA}$	400	800	
h_{FE}	$V_{CE}=5.0\text{V}, I_C=100\mu\text{A}$		350 TYP	
h_{fe}	$V_{CE}=5.0\text{V}, I_C=2.0\text{mA}, f=1.0\text{kHz}$	400	1200	
C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1.0\text{MHz}$		4.0	pF
NF	$V_{CE}=5.0\text{V}, I_C=100\mu\text{A}, R_G=5.0\text{k}\Omega, f=1.0\text{kHz}, BW=15.7\text{kHz}$ (2N5249A, PN5249A only)		3.0	dB

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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

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