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Central Semiconductor Corp.™

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Manufacturers of World Class Discrete Semiconductors

2N5232A

NPN SILICON TRANSISTOR

JEDEC TO-92 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N5232A type is a NPN Silicon Planar Epitaxial Transistors designed for low noise amplifier applications.

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

	<u>SYMBOL</u>		<u>UNITS</u>
Collector-Base Voltage	V_{CBO}	70	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	I_C	100	mA
Power Dissipation	P_D	625	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance	θ_{JA}	0.2	$^\circ\text{C}/\text{mW}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>TYP</u>	<u>MAX</u>	<u>UNITS</u>
I_{CBO}	$V_{CB} = 50\text{V}$			30	nA
I_{CBO}	$V_{CB} = 50\text{V}, T_A = 100^\circ\text{C}$			10	μA
I_{CES}	$V_{CB} = 50\text{V}$			30	nA
I_{EBO}	$V_{EB} = 5.0\text{V}$			50	nA
BV_{CBO}	$I_C = 10\mu\text{A}$	70			V
BV_{CEO}	$I_C = 10\text{mA}$	50			V
BV_{EBO}	$I_C = 10\mu\text{A}$	5.0			V
$V_{CE(SAT)}$	$I_C = 10\text{mA}, I_B = 1.0\text{mA}$			0.125	V
$V_{BE(SAT)}$	$I_C = 10\text{mA}, I_B = 1.0\text{mA}$			0.780	V
$V_{BE(ON)}$	$V_{CE} = 10\text{V}, I_C = 2.0\text{mA}$	0.500		0.900	V
h_{FE}	$V_{CE} = 5.0\text{V}, I_C = 2.0\text{mA}$	250		500	
h_{fe}	$V_{CE} = 5.0\text{V}, I_C = 2.0\text{mA}, f = 1.0\text{kHz}$	250		750	
C_{ob}	$V_{CB} = 10\text{V}, I_E = 0, f = 1.0\text{MHz}$			4.0	pF
NF	$V_{CE} = 5.0\text{V}, I_C = 100\mu\text{A}, R_g = 5\text{k}\Omega$ $f = 1\text{kHz}, BW = 15.7\text{kHz}$		1.9	5.0	dB

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

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