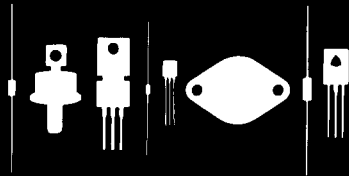


Central Semiconductor Corp.  
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 145 Adams Avenue  
 Hauppauge, New York 11788



2N404A

GERMANIUM TRANSISTOR

JEDEC TO - 5 CASE

( all leads insulated from case )

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N404A is a Germanium PNP Transistor designed for low frequency medium power amplifier and swithcing applications.

MAXIMUM RATINGS ( T<sub>A</sub> = 25° C )

Collector-Base Voltage	V <sub>CB0</sub>	40 volts
Collector-Emitter Voltage ( Punch - through)	V <sub>pt</sub>	35 volts
Emitter-Base Voltage	V <sub>EB0</sub>	25 volts
Collector Current	I <sub>c</sub>	150 m Amps
Emitter Current	I <sub>E</sub>	150 m Amps
Power Dissipation	P <sub>T</sub>	150 m Watts
Operating Junction Temperature	T <sub>j</sub>	-65 to 100° C
Storage Temperature	T <sub>stg</sub>	-65 to 100° C

ELECTRICAL CHARACTERISTICS ( T<sub>A</sub> = 25° C unless otherwise noted )

<u>Symbol</u>	<u>Test Conditions</u>	<u>Min.</u>	<u>Max.</u>	<u>Unit</u>
I <sub>CB0</sub>	V <sub>CB</sub> = 12 V		5	uA
I <sub>CB0</sub>	V <sub>CB</sub> = 12V, T <sub>A</sub> = 80° C		90	uA
I <sub>EBO</sub>	V <sub>EB</sub> = 2.5V		2.5	uA
V <sub>CB0</sub>	I <sub>c</sub> = 20 uA	40		V
V <sub>EBO</sub>	I <sub>E</sub> = 20 uA	25		V
V <sub>CE</sub> ( s )	I <sub>c</sub> = 12 mA, I <sub>B</sub> = 0.4 mA		0.15	V
V <sub>CE</sub> ( s )	I <sub>c</sub> = 24 mA, I <sub>B</sub> = 1.0 mA		0.20	V
V <sub>BE</sub> ( s )	I <sub>c</sub> = 12 mA, I <sub>B</sub> = 0.4 mA		0.35	V
V <sub>BE</sub> ( s )	I <sub>c</sub> = 24 mA, I <sub>B</sub> = 1.0 mA		0.40	v
h <sub>FE</sub>	V <sub>CE</sub> = 0.15V, I <sub>c</sub> = 12 mA	30		-
h <sub>FE</sub>	V <sub>CE</sub> = 0.20V, I <sub>c</sub> = 24 mA	24		-
V <sub>EBfL</sub>	V <sub>CB</sub> = 35V		1.0	V
h <sub>fe</sub>	V <sub>CE</sub> = 6V, I <sub>c</sub> = 1 mA, f = 1 Khz	135 typ.		-
h <sub>ie</sub>	V <sub>CE</sub> = 6V, I <sub>c</sub> = 1 mA, f = 1 Khz	4 typ.		Kohm
h <sub>oe</sub>	V <sub>CE</sub> = 6V, I <sub>c</sub> = 1 mA, f = 1 Khz	50 typ.		umhD
h <sub>re</sub>	V <sub>CE</sub> = 6V, I <sub>c</sub> = 1 mA, f = 1 Khz	7X10 <sup>-4</sup> typ.		-
c <sub>ob</sub>	V <sub>CB</sub> = 6V, f = 2 mHZ		20	Pf
f <sub>hfb</sub>	V <sub>CB</sub> = 6V, I <sub>E</sub> = 1 mA	4		mHZ