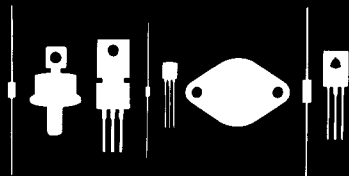


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145 Adams Avenue
Hauppauge, New York 11788



2N404

GERMANIUM TRANSISTOR

JEDEC TO-5 CASE

(all leads isolated from case)

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N404 is a Germanium PNP Transistor designed for low frequency medium power amplifier and switching applications.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNITS
Collector-Base Voltage	V _{CB0}	25	V
Collector-Emitter Voltage (Punch-through)	V _{pt}	24	V
Emitter-Base Voltage	V _{EBO}	12	V
Collector Current	I _C	100	mA
Emitter Current	I _E	100	mA
Power Dissipation	P _D	150	mW
Operating Junction Temperature	T _j	-65 TO +85	°C
Storage Temperature	T _{stg}	-65 TO +100	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =12V		5.0	μA
I _{CBO}	V _{CB} =12V, T _A =80°C		90	μA
I _{EBO}	V _{EB} =2.5V		2.5	μA
BV _{CB0}	I _C =20μA	25		V
BV _{EBO}	I _E =20μA	12		V
V _{CE} (SAT)	I _C =12mA, I _B =0.4mA		0.15	V
V _{CE} (SAT)	I _C =24mA, I _B =1.0mA		0.20	V
V _{BE} (SAT)	I _C =12mA, I _B =0.4mA		0.35	V
V _{BE} (SAT)	I _C =24mA, I _B =1.0mA		0.40	V
h _{FE}	V _{CE} =0.15V, I _C =12mA	30		-
h _{FE}	V _{CE} =0.20V, I _C =24mA	24		-
h _{fe}	V _{CE} =6V, I _C =1mA, f=1.0kHz	135 typ		-
h _{ie}	V _{CE} =6V, I _C =1mA, f=1.0kHz	4.0 typ		kΩ
h _{oe}	V _{CE} =6V, I _C =1mA, f=1.0kHz	50 typ		umho
h _{re}	V _{CE} =6V, I _C =1mA, f=1.0kHz	7X10 ⁻⁴ typ		-
c _{ob}	V _{CB} =6V, I _E =0, f=1MHz		20	pF
f _{hfb}	V _{CB} =6V, I _E =1mA	4.0		MHz

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