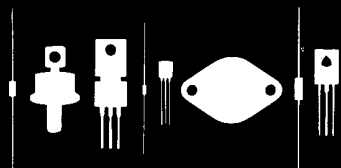


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145 Adams Avenue
Hauppauge, New York 11788



2N3246

NPN SILICON LOW NOISE TRANSISTOR

JEDEC TO-18 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N3246 is an NPN silicon transistor manufactured by the epitaxial planar process designed for small signal, low noise and low power audio amplifier applications.

MAXIMUM RATINGS (TA=25°C)

	SYMBOL		UNIT
Collector-Base Voltage	V _{CB0}	60	V
Collector-Emitter Voltage	V _{CE0}	45	V
Emitter-Base Voltage	V _{EB0}	10	V
Collector Current	I _C	50	mA
Power Dissipation	P _D	350	mW
Operating and Storage Junction Temperature	T _J , T _{STG}	-65 TO +200	°C
Thermal Resistance	θ _{JA}	0.5	°C/mW

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I _{CB0}	V _{CB} =40V		1.0	nA
I _{CB0}	V _{CB} =40V, T _A =150°C		2.0	μA
I _{EB0}	V _{EB} =8.0V		1.0	nA
BV _{CB0}	I _C =10μA	60		V
BV _{CE0}	I _C =1.0mA	45		V
BV _{EB0}	I _E =10μA	10		V
V _{CE} (SAT)	I _C =5.0mA, I _B =0.5mA		0.5	V
V _{BE} (SAT)	I _C =5.0mA, I _B =0.5mA	0.7	0.9	V
h _{FE}	V _{CE} =5.0V, I _C =1.0μA	150		
h _{FE}	V _{CE} =5.0V, I _C =10μA	200	600	
h _{FE}	V _{CE} =5.0V, I _C =100μA	300		
h _{FE}	V _{CE} =5.0V, I _C =500μA	350		
h _{FE}	V _{CE} =5.0V, I _C =1.0mA	400	-	
h _{FE}	V _{CE} =5.0V, I _C =10mA	-	800	
f _T	V _{CE} =5.0V, I _C =1.0mA, f=30MHz	60	180	MHz
h _{fe}	V _{CB} =6.0V, I _C =1.0mA, f=1.0kHz	200	600	
h _{ib}	V _{CB} =6.0V, I _C =1.0mA, f=1.0kHz	24	32	Ω
h _{ob}	V _{CB} =6.0V, I _C =1.0mA, f=1.0kHz	0.1	1.0	μmho
h _{rb}	V _{CB} =6.0V, I _C =1.0mA, f=1.0kHz		6X10 ⁻⁴	
C _{ob}	V _{CB} =5.0V, I _E =0, f=1.0MHz		5.0	pF
NF	V _{CE} =5.0V, I _C =10μA, R _G =10kΩ, f=5.0Hz to 15kHz		2.0	dB

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