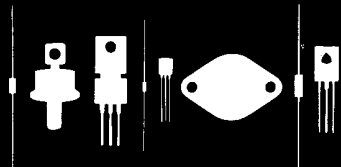


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145 Adams Avenue
Hauppauge, New York 11788



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	VCBO	60	V
Collector-Emitter Voltage	VCEO	45	V
Emitter-Base Voltage	VEBO	10	V
Collector Current	IC	50	mA
Power Dissipation	PD	350	mW
Operating and Storage Junction Temperature	TJ, TSTG	-65 TO +200	°C
Thermal Resistance	θJA	0.5	°C/mW

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
ICBO	VCB=40V		1.0	nA
ICBO	VCB=40V, TA=150°C		2.0	μA
IEBO	VEB=8.0V		1.0	nA
BVCBO	IC=10μA	60		V
BVCEO	IC=1.0mA	45		V
BVEBO	IE=10μA	10		V
VCE(SAT)	IC=5.0mA, IB=0.5mA		0.5	V
VBE(SAT)	IC=5.0mA, IB=0.5mA	0.7	0.9	V
hFE	VCE=5.0V, IC=1.0μA	150		
hFE	VCE=5.0V, IC=10μA	200	600	
hFE	VCE=5.0V, IC=100μA	300		
hFE	VCE=5.0V, IC=500μA	350		
hFE	VCE=5.0V, IC=1.0mA	400	-	
hFE	VCE=5.0V, IC=10mA	-	800	
fT	VCE=5.0V, IC=1.0mA, f=30MHz	60	180	MHz
hfe	VCB=6.0V, IC=1.0mA, f=1.0kHz	200	600	
hib	VCB=6.0V, IC=1.0mA, f=1.0kHz	24	32	Ω
hob	VCB=6.0V, IC=1.0mA, f=1.0kHz	0.1	1.0	μmho
hrb	VCB=6.0V, IC=1.0mA, f=1.0kHz		6X10 ⁻⁴	
Cob	VCB=5.0V, IE=0, f=1.0MHz		5.0	pF
NF	VCE=5.0V, IC=10μA, RG=10kΩ, f=5.0Hz to 15kHz		2.0	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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