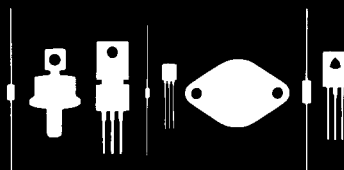


Central
Semiconductor Corp.

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145 Adams Avenue
Hauppauge, New York 11788



PN4916

PN4917

PNP SILICON TRANSISTOR

JEDEC TO-92 CASE (EBC)

DESCRIPTION

The CENTRAL SEMICONDUCTOR PN4916, PN4917 series types are epoxy molded silicon PNP small signal transistors manufactured by the epitaxial planar process for general purpose amplifier and switching applications.

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

	SYMBOL		UNIT
Collector-Base Voltage	VCBO	30	V
Collector-Emitter Voltage	VCEO	30	V
Emitter-Base Voltage	VEBO	5.0	V
Collector Current	IC	100	mA
Power Dissipation	PD	625	mW
Power Dissipation (TC=25°C)	PD	1.5	W
Operating and Storage Junction Temperature	TJ, TSTG	-65 TO +150	°C

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

SYMBOL	TEST CONDITIONS	PN4916		PN4917		UNIT
		MIN	MAX	MIN	MAX	
ICES	VCE=15V		25		25	nA
ICES	VCE=15V, TA=65°C		25		25	µA
BVCBO	IC=10µA	30		30		V
BVCES	IC=10µA	30		30		V
BVCEO	IC=10mA	30		30		V
BVEBO	IE=10µA	5.0		5.0		V
VCE(SAT)	IC=1.0mA, IB=0.1mA		0.13		0.13	V
VCE(SAT)	IC=10mA, IB=1.0mA		0.14		0.14	V
VCE(SAT)	IC=50mA, IB=5.0mA		0.3		0.3	V
VBE(SAT)	IC=1.0mA, IB=0.1mA		0.75		0.75	V
VBE(SAT)	IC=10mA, IB=1.0mA	0.7	0.9	0.7	0.9	V
VBE(SAT)	IC=50mA, IB=5.0mA	0.75	1.1	0.75	1.1	V
hFE	VCE=1.0V, IC=100µA	40	-	100	-	
hFE	VCE=1.0V, IC=1.0mA	60	-	150	-	
hFE	VCE=1.0V, IC=10mA	70	200	150	300	
hFE	VCE=1.0V, IC=50mA	15	-	30	-	
fT	VCE=20V, IC=10mA, f=100MHz	400		450		MHz
Cob	VCE=10V, IE=0,		4.5		4.5	pF
Cib	VEB=0.5V, IC=0,		8.0		8.0	pF
ton	IC=50mA, IB1=5.0mA		40		40	ns
t _{off}	IC=50mA, IB1=5.0mA, IB2=5.0mA		150		150	ns
tr _{b⁺c_c}	VCE=20V, IC=10mA, f=80MHz		50		50	ps
NF	VCE=5.0V, IC=1.0mA, RS=100Ω, BW=15MHz, f=100MHz		6.0		6.0	dB
NF	VCE=5.0V, IC=100µA, RS=1.0kΩ, BW=15.7kHz, 3.0 dB Points @ 10Hz and 10kHz		4.0		4.0	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

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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
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