

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	Vсво	30	V
Collector-Emitter Voltage	VCEO	30	V
Emitter-Base Voltage	VEBO	5.0	V
Collector Current	IC	100	mA
Power Dissipation	P_{D}	625	mW
Power Dissipation (Tc=25°C)	P_{D}	1.5	W
Operating and Storage Junction Temperature	TJ. TSTG	-65 TO +150	°C

	CHARACTERISTICS (TA=25°C unless otherwise noted)		916	PN4		UNIT
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNIT
ICES	VCE=15V		25		25	nΑ
ICES	VCE=15V, TA=65°C		25		25	μΑ
BVCBO	IC=10μA	30		30		V
BVCES	IC=10μA	30		30		V
BVCEO	I C=1 OmA	30		30		V
BVEBO	i E=10μA	5.0		5.0		٧
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	1	0.75	V
VBE(SAT)	IC=10mA, IB=1.0mA	0.7		0.7	-	V
VBE(SAT)	1c=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	-	
fŢ	VCE=20V, IC=10mA, f=100MHz	400		450		MHz
Сор	VCE=10V, IE=0,		4.5		4.5	pF
С!Р	VEB=0.5V, IC=0,		8.0		8.0	рF
ton	IC=50mA, IB1=5.0mA		40		40	ns
^t off	Ic=50mA, IB1=5.0mA, IB2=5.0mA		150		150	ns
rb^Cc	VCE=20V, IC=10mA, f=80MHz		50		50	ps
NF NF	VCE=5.0V, IC=1.0mA, RS=100Ω, BW=15MHz, f=100MHz VCE=5.0V, IC=100μA, RS=1.0kΩ, BW=15.7kHz,		6.0		6.0	dB
	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 guick 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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