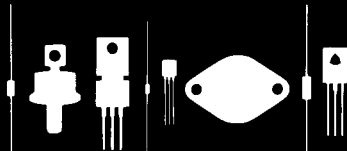


Central
Semiconductor Corp.

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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	V _{CB0}	30	V
Collector-Emitter Voltage	V _{CE0}	30	V
Emitter-Base Voltage	V _{EB0}	5.0	V
Collector Current	I _C	100	mA
Power Dissipation	P _D	625	mW
Power Dissipation (T _C =25°C)	P _D	1.5	W
Operating and Storage Junction Temperature	T _J , T _{STG}	-65 TO +150	°C

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

SYMBOL	TEST CONDITIONS	PN4916		PN4917		UNIT
		MIN	MAX	MIN	MAX	
I _{CES}	V _{CE} =15V		25		25	nA
I _{CES}	V _{CE} =15V, T _A =65°C		25		25	μA
BV _{CB0}	I _C =10μA	30		30		V
BV _{CES}	I _C =10μA	30		30		V
BV _{CE0}	I _C =10mA	30		30		V
BV _{EB0}	I _E =10μA	5.0		5.0		V
V _{CE} (SAT)	I _C =1.0mA, I _B =0.1mA		0.13		0.13	V
V _{CE} (SAT)	I _C =10mA, I _B =1.0mA		0.14		0.14	V
V _{CE} (SAT)	I _C =50mA, I _B =5.0mA		0.3		0.3	V
V _{BE} (SAT)	I _C =1.0mA, I _B =0.1mA		0.75		0.75	V
V _{BE} (SAT)	I _C =10mA, I _B =1.0mA	0.7	0.9	0.7	0.9	V
V _{BE} (SAT)	I _C =50mA, I _B =5.0mA	0.75	1.1	0.75	1.1	V
h _{FE}	V _{CE} =1.0V, I _C =100μA	40	-	100	-	
h _{FE}	V _{CE} =1.0V, I _C =1.0mA	60	-	150	-	
h _{FE}	V _{CE} =1.0V, I _C =10mA	70	200	150	300	
h _{FE}	V _{CE} =1.0V, I _C =50mA	15	-	30	-	
f _T	V _{CE} =20V, I _C =10mA, f=100MHz	400		450		MHz
C _{ob}	V _{CE} =10V, I _E =0,		4.5		4.5	pF
C _{ib}	V _{EB} =0.5V, I _C =0,		8.0		8.0	pF
t _{on}	I _C =50mA, I _{B1} =5.0mA		40		40	ns
t _{off}	I _C =50mA, I _{B1} =5.0mA, I _{B2} =5.0mA		150		150	ns
t _{rb} C _c	V _{CE} =20V, I _C =10mA, f=80MHz		50		50	ps
NF	V _{CE} =5.0V, I _C =1.0mA, R _S =100Ω, B _W =15MHz, f=100MHz		6.0		6.0	dB
NF	V _{CE} =5.0V, I _C =100μA, R _S =1.0kΩ, B _W =15.7kHz, 3.0 dB Points @ 10Hz and 10kHz		4.0		4.0	dB