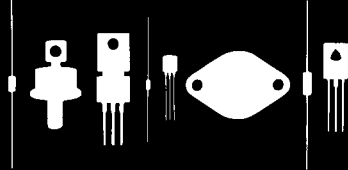


Central  
Semiconductor Corp.

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145 Adams Avenue  
Hauppauge, New York 11788



2N4918  
2N4919  
2N4920

PNP Silicon Transistor  
General Purpose Power

JEDEC TO-126 Case

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N4918, 2N4919, and 2N4920 are Silicon PNP Epitaxial Base Power Transistors designed for Medium power amplifier and switching applications.

## MAXIMUM RATINGS (T<sub>A</sub>=25°C Unless otherwise noted)

		2N4918	2N4919	2N4920
Collector-Base Voltage	V <sub>CB0</sub>	40V	60V	80V
Collector-Emitter Voltage	V <sub>CE0</sub>	40V	60V	80V
Emitter-Base Voltage	V <sub>EB0</sub>		5.0V	
Collector Current, Continuous	I <sub>C</sub>		1.0A	
Collector Current, Peak	I <sub>CM</sub>		3.0A	
Base Current	I <sub>B</sub>		1.0A	
Power Dissipation (T <sub>C</sub> =25°C)	P <sub>D</sub>		30W	
Operating & Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>		-65 to +150°C	
Thermal Resistance, Junction to Case	θ <sub>J-C</sub>		3.12°C/W	

## ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I <sub>CB0</sub>	V <sub>CB</sub> =Rated V <sub>CB</sub>		100	μA
I <sub>CEV</sub>	V <sub>CE</sub> =Rated V <sub>CE0</sub> , V <sub>EB</sub> =1.5V		100	μA
I <sub>CE0</sub>	V <sub>CE</sub> =0.5X Rated V <sub>CE0</sub>		500	μA
I <sub>EB0</sub>	V <sub>EB</sub> =5.0V		1.0	mA
BV <sub>CE0</sub>	I <sub>C</sub> =0.1A	40(2N4918)		V
		60(2N4919)		V
		80(2N4920)		V
V <sub>CE(s)</sub>	I <sub>C</sub> =1.0A, I <sub>B</sub> =0.1A		0.6	V
V <sub>BE(s)</sub>	I <sub>C</sub> =1.0A, I <sub>B</sub> =0.1A		1.3	V
V <sub>BE(on)</sub>	V <sub>CE</sub> =1.0V, I <sub>C</sub> =1.0A		1.3	V
h <sub>FE</sub>	V <sub>CE</sub> =1.0V, I <sub>C</sub> =50mA	40		-
h <sub>FE</sub>	V <sub>CE</sub> =1.0V, I <sub>C</sub> =500mA	20	100	-
h <sub>FE</sub>	V <sub>CE</sub> =1.0V, I <sub>C</sub> =1.0A	10		-
f <sub>T</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =250mA, f=1.0MHz	3.0		MHz
C <sub>ob</sub>	V <sub>CB</sub> =10V, f=100kHz		100	pF



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