

**Micro Commercial Components** 



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## Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Low Collector Saturation Voltage: V  $_{CE(sat)}$ =0.3V(Max.) Low Output Capacitance: Cob=4.0pF(Typ.)
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- Complementary Pair With 2SC5343
- Halogen free available upon request by adding suffix "-HF"
- Marking: A1980
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

### **Maximum Ratings**

Symbol	Rating	Rating	Unit
V <sub>CEO</sub>	Collector-Emitter Voltage	50	V
V <sub>CBO</sub>	Collector-Base Voltage	50	V
V <sub>EBO</sub>	Emitter-Base Voltage	5.0	V
Ιc	Collector Current	150	mA
Pc	Collector power dissipation	625	mW
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

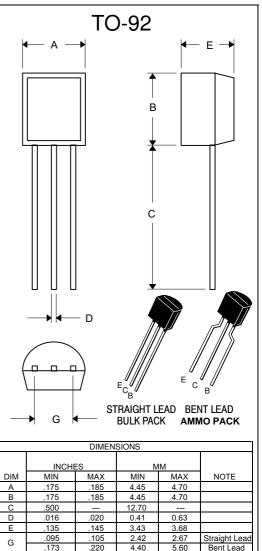
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
<b>OFF CHARA</b>	CTERISTICS				
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =100uAdc, I <sub>B</sub> =0)	50			Vdc
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage $(I_C=10mAdc, I_B=0)$	50			Vdc
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage (I <sub>E</sub> =10uAdc, I <sub>C</sub> =0)	5.0			Vdc
I <sub>CBO</sub>	Collector-Base Cutoff Current (V <sub>CB</sub> =50Vdc,I <sub>E</sub> =0)			0.1	uAdc
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =5.0Vdc, I <sub>C</sub> =0)			0.1	uAdc
ON CHARA	CTERISTICS				
h <sub>FE</sub>	Forward Current Transfer ratio* (I <sub>c</sub> =2.0Adc, V <sub>ce</sub> =6.0Vdc)	70		700	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>c</sub> =100mAdc, I <sub>B</sub> =10mAdc)			0.3	Vdc
f⊤	Transition Frequency ( $V_{CE}$ =10Vdc, I <sub>C</sub> =1.0mAdc)	80			MHz
C <sub>ob</sub>	Collector Output Capacitance ( $V_{CB}$ =10Vdc, $I_E$ =0, f=1.0MHz)		4.0	7.0	pF
NF	Noise Figure $(V_{CE}=6.0Vdc, I_{C}=0.1mAdc, f=1.0KHz, Rg=10K\Omega)$			10	dB

\* h<sub>FE</sub> rank / O: 70-140, Y:120-240, G:200-400, L:300-700

## 2SA1980-O 2SA1980-Y 2SA1980-G 2SA1980-L

# **PNP Silicon Transistors**



\* For ammo packing detailed specification, click here to visit our website of product packaging for details.

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## **Ordering Information :**

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100 Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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