



Micro Commercial Components

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

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.)
- 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_{CEO} | Collector-Emitter Voltage | 50 | V | |
| V_{CBO} | Collector-Base Voltage | 50 | V | |
| V _{EBO} | Emitter-Base Voltage | 5.0 | V | |
| Ic | Collector Current | 150 | mA | |
| Pc | Collector power dissipation | 625 | mW | |
| TJ | Junction Temperature | 150 | °C | |
| T _{STG} | Storage Temperature | -55 to +150 | °C | |

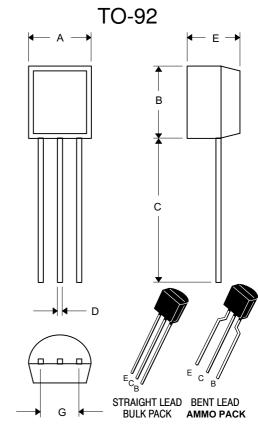
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Тур | Max | Units |
|----------------------|---|-----|-----|-----|-------|
| OFF CHARA | CTERISTICS | | | | |
| $V_{(BR)CBO}$ | Collector-Base Breakdown Voltage (I _C =100uAdc, I _B =0) | 50 | | | Vdc |
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage (I _C =10mAdc, I _B =0) | 50 | | | Vdc |
| $V_{(BR)EBO}$ | Emitter-Base Breakdown Voltage (I _E =10uAdc, I _C =0) | 5.0 | | | Vdc |
| I _{CBO} | Collector-Base Cutoff Current (V _{CB} =50Vdc,I _E =0) | | | 0.1 | uAdc |
| I _{EBO} | Emitter-Base Cutoff Current (V _{EB} =5.0Vdc, I _C =0) | | | 0.1 | uAdc |
| ON CHARACTERISTICS | | | | | |

| h _{FE} | Forward Current Transfer ratio* | 70 | | 700 | |
|----------------------|--|----|-----|-----|-----|
| | (I _C =2.0Adc, V _{CE} =6.0Vdc) | | | | |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage (I _C =100mAdc, I _B =10mAdc) | | - | 0.3 | Vdc |
| f⊤ | Transition Frequency (V _{CE} =10Vdc, I _C =1.0mAdc) | 80 | | | MHz |
| C _{ob} | 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 Ω) | | | 10 | dB |

^{*} h_{FE} rank / O: 70-140, Y:120-240, G:200-400, L:300-700

PNP Silicon Transistors



| DIMENSIONS | | | | | |
|------------|-------|-----------|-------|------|---------------|
| | INCHE | INCHES MM | | | |
| DIM | MIN | MAX | MIN | MAX | NOTE |
| Α | .175 | .185 | 4.45 | 4.70 | |
| В | .175 | .185 | 4.45 | 4.70 | |
| С | .500 | | 12.70 | | |
| D | .016 | .020 | 0.41 | 0.63 | |
| Е | .135 | .145 | 3.43 | 3.68 | |
| G | .095 | .105 | 2.42 | 2.67 | Straight Lead |
| G | .173 | .220 | 4.40 | 5.60 | Bent Lead |

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

www.mccsemi.com

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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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