



Micro Commercial Components



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2SC2001-M
2SC2001-L
2SC2001-K

Features

- Capable of 0.6Watts of Power Dissipation.
- Collector-current 0.7A
- Collector-base Voltage 30V
- Operating and storage junction temperature range: -55°C to +150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: C2001
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

NPN Silicon
Plastic-Encapsulate
Transistor

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Max | Units |
|----------------------------|--|-----|-----|-----------------|
| OFF CHARACTERISTICS | | | | |
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage ($I_C=10\text{mAdc}$, $I_B=0$) | 25 | --- | Vdc |
| $V_{(BR)CBO}$ | Collector-Base Breakdown Voltage ($I_C=100\mu\text{Adc}$, $I_E=0$) | 30 | --- | Vdc |
| $V_{(BR)EBO}$ | Emitter-Base Breakdown Voltage ($I_E=100\mu\text{Adc}$, $I_C=0$) | 5.0 | --- | Adc |
| I_{CBO} | Collector Cutoff Current ($V_{CB}=30\text{Vdc}$, $I_E=0$) | --- | 0.1 | μAdc |
| I_{CEO} | Collector Cutoff Current ($V_{CE}=20\text{Vdc}$, $I_E=0$) | --- | 0.1 | Vdc |
| I_{EBO} | Emitter Cutoff Current ($V_{EB}=5.0\text{Vdc}$, $I_C=0$) | --- | 0.1 | μAdc |

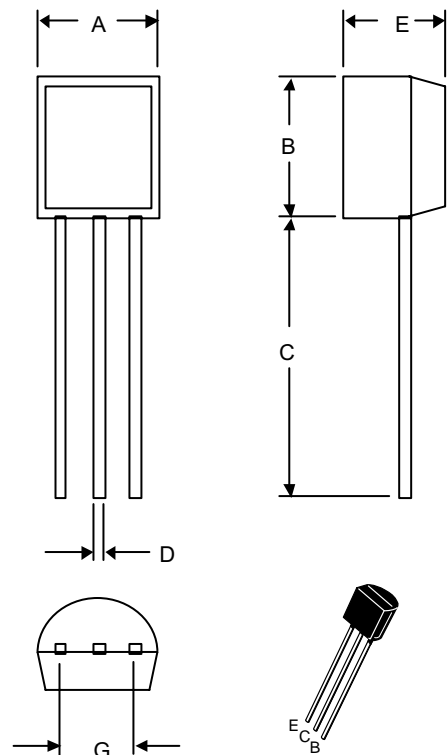
ON CHARACTERISTICS

| | | | | |
|---------------|--|-----|-----|-----|
| h_{FE} | DC Current Gain ($I_C=100\text{mAdc}$, $V_{CE}=1.0\text{Vdc}$) | 90 | 400 | --- |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage ($I_C=700\text{mAdc}$, $I_B=70\text{mAdc}$) | --- | 0.6 | Vdc |
| $V_{(BE)sat}$ | Base-Emitter Saturation Voltage ($I_C=700\text{mAdc}$, $I_B=70\text{mAdc}$) | --- | 1.2 | Vdc |
| fT | Transition Frequency ($V_{CE}=6.0\text{Vdc}$, $I_C=10\text{mAdc}$, f=30MHz) | 50 | --- | MHz |

CLASSIFICATION OF h_{FE}

| Rank | M | L | K |
|-------|--------|---------|---------|
| Range | 90-180 | 135-270 | 200-400 |

TO-92



DIMENSIONS

| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|-------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | .170 | .190 | 4.33 | 4.83 | |
| B | .170 | .190 | 4.30 | 4.83 | |
| C | .550 | .590 | 13.97 | 14.97 | |
| D | .010 | .020 | 0.36 | 0.56 | |
| E | .130 | .160 | 3.30 | 3.96 | |
| G | .096 | .104 | 2.44 | 2.64 | |



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Ordering Information :

| Device | Packing |
|----------------|------------------------------|
| Part Number-AP | Ammo Packing: 2Kpcs/Ammo Box |
| Part Number-BP | Bulk: 100Kpcs/Carton |

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