



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Power amplifier applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

| Symbol | Rating | Rating | Unit |
|------------------|-----------------------------|--------------|------------------------|
| V_{CEO} | Collector-Emitter Voltage | -120 | V |
| V_{CBO} | Collector-Base Voltage | -120 | V |
| V_{EBO} | Emitter-Base Voltage | -5.0 | V |
| Ic | Collector Current | -800 | mA |
| I _B | Base Current | -160 | mA |
| Pc | Collector power dissipation | 500 | W |
| | | 1000(Note 1) | |
| TJ | Junction Temperature | 150 | $^{\circ}\mathbb{C}$ |
| T _{STG} | Storage Temperature | -55 to +150 | $^{\circ}\!\mathbb{C}$ |

Note 1: Mounted on ceramic substrate (250mm² x 0.8t)

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Тур. | Max | Units | |
|------------------|---|------|------|------|-------|--|
| OFF CHARA | OFF CHARACTERISTICS | | | | | |
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage* (I _C =-10mAdc, I _B =0) | -120 | 1 | | Vdc | |
| $V_{(BR)EBO}$ | Collector-Emitter Breakdown Voltage* (I _E =-1mAdc, I _C =0) | -5 | | | Vdc | |
| I _{CBO} | I_{CBO} Collector-Base Cutoff Current $(V_{CB}=-120\text{Vdc},I_{E}=0)$ | | | -0.1 | uAdc | |
| I _{EBO} | Emitter-Base Cutoff Current (V _{EB} =-5.0Vdc, I _C =0) | | | -0.1 | uAdc | |

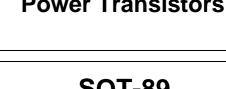
ON CHARACTERISTICS

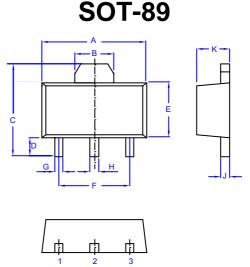
| h _{FE} | Forward Current Transfer ratio | 80 | | 240 | |
|-----------------|--|--------|-----|------|-----|
| | (I _C =-0.1Adc, V _{CE} =-5.0Vdc) (Note 2) | | | | |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage | 1.0 Vd | | Vdc | |
| ` , | $(I_C=-0.5Adc, I_B=-50mAdc)$ | | | | |
| V_{BE} | Base-Emitter Voltage | | | -1.0 | Vdc |
| | $(I_C=-0.5Adc, V_{CE}=-5.0Vdc)$ | | | | |
| f⊤ | Transition Frequency | | 120 | | MHz |
| | $(I_C=-0.1Adc, V_{CE}=-5.0Vdc)$ | | | | |
| C _{ob} | Collector Output Capacitance | | | 30 | pF |
| | (V _{CB} =-10V, I _E =0, f=1MHz) | | | | |

CLASSIFICATION OF HEE(1)

| Rank | 0 | Υ |
|---------|--------|---------|
| Range | 80-160 | 120-240 |
| Marking | DO | DY |

PNP Silicon Power Transistors





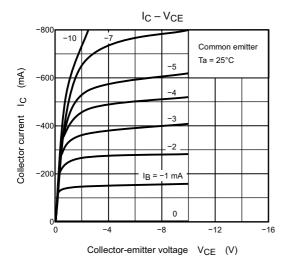
1.BASE 2.COLLECTOR 3.EMITTER

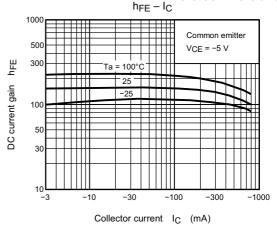
| DIMENSINS | | | | | |
|-----------|--------|------|------|------|-------|
| DIM | INCHES | | MM | | NOTES |
| | MIN | MAX | MIN | MAX | |
| Α | .173 | .181 | 4.39 | 4.60 | |
| В | .063 | .071 | 1.60 | 1.80 | |
| С | .154 | .165 | 3.91 | 4.25 | |
| D | .031 | .039 | 0.80 | 1.00 | |
| E | .092 | .100 | 2.34 | 2.54 | |
| F | .118 | | 3.00 | | TYP |
| G | .013 | .019 | 0.33 | 0.48 | |
| Н | .015 | .021 | 0.38 | 0.53 | |
| J | .015 | .016 | 0.38 | 0.41 | |
| K | 055 | 063 | 1 40 | 1.60 | |

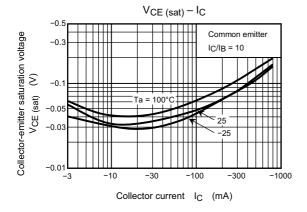
2SA1201

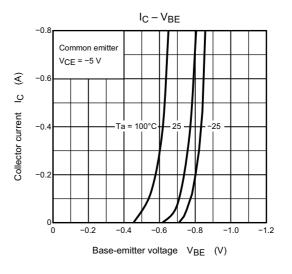
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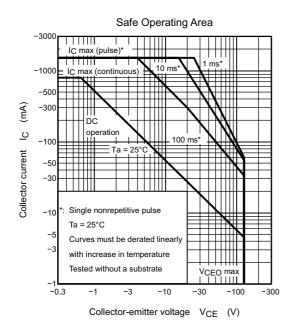
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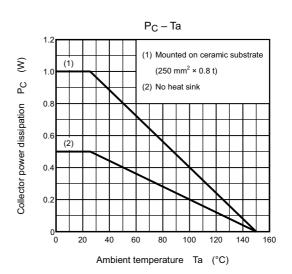














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Ordering Information:

| Device | Packing |
|----------------|----------------------|
| Part Number-TP | Tape&Reel 1Kpcs/Reel |

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