



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MJD42C

Features

- Halogen free available upon request by adding suffix "-HF" Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
 Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Electrically similar to popular TIP41 and TIP42 Series
- Monolithic Construction With Built-in Base-Emitter Resistors

Maximum Ratings @ 25°C Unless Otherwise Specified

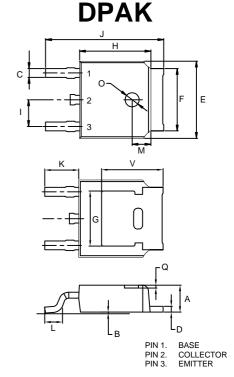
| Symbol | Rating | Rating | Unit |
|----------------|--------------------------------|-------------|----------------------|
| V_{CEO} | Collector-Emitter Voltage | -100 | V |
| V_{CBO} | Collector-Base Voltage | -100 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| Ic | Collector Current-Continuous | -6 | Α |
| Pc | Collector Dissipation | 1.25 | W |
| T _J | Operating Junction Temperature | 150 | $^{\circ}\mathbb{C}$ |
| Тото | Storage Temperature | -65 to +150 | °C |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Тур | Max | Units |
|----------------------|---|----------|------|--------|-------|
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage (I _C =-30mAdc, I _B =0) | -100 | - | | Vdc |
| $V_{(BR)CBO}$ | Collector-Base Breakdown Voltage (I _C =-0.1mAdc, I _E =0) | -100 | | | Vdc |
| $V_{(BR)EBO}$ | Emitter-Base Breakdown Voltage (I _E =-0.1mAdc, I _C =0) | -5 | | | Vdc |
| I _{CEO} | Collector Cutoff Current (V _{CE} =-60Vdc, I _B =0) | | | -50 | uAdc |
| I _{EBO} | Emitter Cutoff Current (V _{EB} =-5Vdc, I _C =0) | | | -500 | uAdc |
| h _{FE} | DC Current Gain (I _C =-0.3Adc, V _{CE} =-4Vdc) (I _C =-3Adc, V _{CE} =-4Vdc) | 30 15 | | 75 | |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage (I _C =-6Adc, I _B =-0.6Adc) | | | -1.5 | Vdc |
| $V_{BE(on)}$ | Base-Emitter Voltage (Ic=-6Adc, Vc==-4Vdc) | | | -2.0 | Vdc |
| f⊤ | Transition frequency (V _{CE} =-10Vdc,Ic=-0.5Adc,fr=1KHz) | 3 | | | MHz |

Silicon PNP epitaxial planer

Transistors



| DIMENSIONS | | | | | | |
|------------|-------|-------|------|-------|------|--|
| | INC | HES | MM | | | |
| DIM | MIN | MAX | MIN | MAX | NOTE | |
| Α | 0.087 | 0.094 | 2.20 | 2.40 | | |
| В | 0.000 | 0.005 | 0.00 | 0.13 | | |
| С | 0.026 | 0.034 | 0.66 | 0.86 | | |
| D | 0.018 | 0.023 | 0.46 | 0.58 | | |
| Е | 0.256 | 0.264 | 6.50 | 6.70 | | |
| F | 0.201 | 0.215 | 5.10 | 5.46 | | |
| G | 0.190 | | 4.83 | | | |
| Н | 0.236 | 0.244 | 6.00 | 6.20 | | |
| | 0.086 | 0.094 | 2.18 | 2.39 | | |
| J | 0.386 | 0.409 | 9.80 | 10.40 | | |
| K | 0.114 | | 2.90 | | | |
| L | 0.055 | 0.067 | 1.40 | 1.70 | | |
| M | 0.063 | | 1.60 | | | |
| 0 | 0.043 | 0.051 | 1.10 | 1.30 | | |
| Q | 0.000 | 0.012 | 0.00 | 0.30 | | |
| V | 0.211 | | 5. | 35 | | |



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Ordering Information:

| Device | Packing |
|----------------|-------------------------|
| Part Number-TP | Tape&Reel: 2.5Kpcs/Reel |

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

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