



Micro Commercial Components



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DTC113ZUA

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epitaxial Planar Die Construction
- Complementary NPN Types Available
- Built-In Biasing Resistors
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: E21
- Halogen free available upon request by adding suffix "-HF"

Absolute maximum ratings @ 25°C

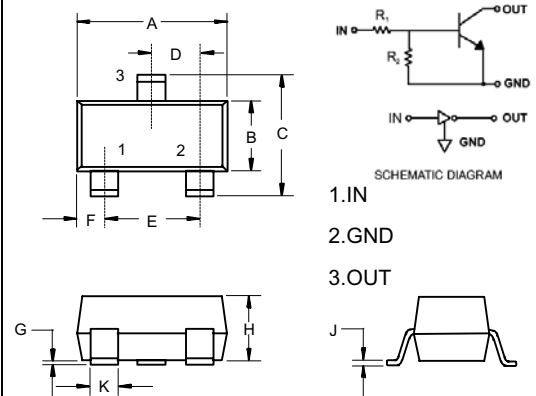
| Symbol | Parameter | Min | Typ | Max | Unit |
|-----------|----------------------|-----|-----|-----|------|
| I_C | Collector current | --- | 100 | --- | mA |
| V_{IN} | Input voltage | -5 | --- | +10 | V |
| P_d | Power dissipation | --- | 200 | --- | mW |
| T_j | Junction temperature | --- | 150 | --- | °C |
| T_{stg} | Storage temperature | -55 | --- | 150 | °C |

Electrical Characteristics @ 25°C

| Symbol | Parameter | Min | Typ | Max | Unit |
|--------------|--|-----|-----|-----|------------|
| $V_{I(off)}$ | Input voltage ($V_{CC}=5V, I_o=100 \mu A$) | --- | --- | 0.3 | V |
| $V_{I(on)}$ | Input voltage ($V_o=0.3V, I_o=20mA$) | 3.0 | --- | --- | V |
| $V_{O(on)}$ | Output voltage ($I_o=10mA, I_i=0.5mA$) | --- | --- | 0.3 | V |
| I_i | Input current ($V_i=5V$) | --- | --- | 7.2 | mA |
| $I_{o(off)}$ | Output current ($V_{CC}=50V, V_i=0$) | --- | --- | 0.5 | μA |
| G_1 | DC current gain ($V_o=5V, I_o=5mA$) | 33 | --- | --- | |
| R_1 | Input resistance | 0.7 | 1.0 | 1.3 | K Ω |
| R_2/R_1 | Resistance ratio | 8 | 10 | 12 | |
| f_T | Transition frequency ($V_{CE}=10V, I_E=5mA, f=100MHz$) | --- | 250 | --- | MHz |

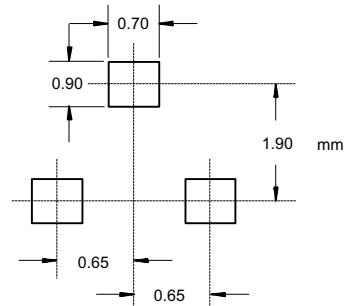
Digital Transistors

SOT-323



| DIM | INCHES | | MM | | NOTE |
|-----|--------------|------|--------------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .071 | .087 | 1.80 | 2.20 | |
| B | .045 | .053 | 1.15 | 1.35 | |
| C | .079 | .087 | 2.00 | 2.20 | |
| D | .026 Nominal | | 0.65 Nominal | | |
| E | .047 | .055 | 1.20 | 1.40 | |
| F | .012 | .016 | .30 | .40 | |
| G | .000 | .004 | .000 | .100 | |
| H | .035 | .039 | .90 | 1.00 | |
| J | .004 | .010 | .100 | .250 | |
| K | .012 | .016 | .30 | .40 | |

Suggested Solder Pad Layout





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Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel; 3Kpcs/Reel |

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

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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