

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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DTA114EE

Features

- Epitaxial Planar Die Construction
- Untrl Small Surface Mount Package
- Built-In Biasing Resistors
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

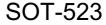
Absolute maximum ratings @ 25 $_{\odot}$

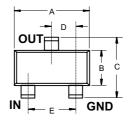
| Symbol | Parameter | Min | Тур | Max | Unit |
|-----------------|----------------------|-----|-----|------|------------|
| V _{cc} | Supply Voltage | | -50 | | V |
| Ic | Collector current | | -50 | -100 | mA |
| V_{IN} | Inputvoltage | -40 | - | 10 | V |
| P_d | Power dissipation | | 150 | | mW |
| T_{j} | Junction temperature | | 150 | | $^{\circ}$ |
| T_{stg} | Storage temperature | -55 | | 150 | r |

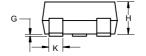
Electrical Characteristics @ 25_~

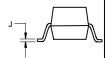
| Symbol | Parameter | Min | Тур | Max | Unit |
|--------------------------------|---|-----|-----|-------|--------------|
| $V_{I(off)}$ | Input voltage (V _{cc} =-5V, I _o =-100 ,, A) | | | -0.5 | V |
| $V_{I(on)}$ | Input voltage (V_{CC} =-5V, I_{O} =-100 $_{\mu}$ A) (V_{O} =-0.3V, I_{O} =-10mA | | | | V |
| $V_{O(on)}$ | Output voltage (I _O =-10mA,I _i =-0.5mA) | | | -0.3 | V |
| I_1 | Input current (V _I =-5V) | | | -0.88 | mA |
| $I_{O(off)}$ | Output current (V _{CC} =-50V, V _I =0) | | | -0.5 | ,, A |
| Gı | DC current gain (V ₀ =-5V, I ₀ =-5mA) | 30 | - | | |
| R ₁ | Input resistance | 7 | 10 | 13 | K_{Ω} |
| R ₂ /R ₁ | Resistance ratio | | 1.0 | 0.2 | |
| f⊤ | Transition frequency (VcE=-10V, I _E =5mA, f=100MHz) | | 250 | | MHz |

Digital Transistors





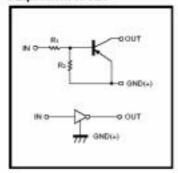




| DIMENSIONS | | | | | |
|------------|--------------|------|-------------|------|------|
| | INCHES | | М | | |
| DIM | MIN | MAX | MIN | MAX | NOTE |
| Α | .059 | .067 | 1.50 | 1.70 | |
| В | .030 | .033 | 0.75 | 0.85 | |
| С | .057 | .069 | 1.45 | 1.75 | |
| D | .020 Nominal | | 0.50Nominal | | |
| Е | .035 | .043 | 0.90 | 1.10 | |
| G | .000 | .004 | .000 | .100 | |
| Н | .028 | .031 | .70 | 0.80 | |
| J | .004 | .008 | .100 | .200 | |
| K | .010 | .014 | .25 | .35 | |

Equivalent circuit

Revision: A



Marking:14



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Ordering Information:

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

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