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Micro Commercial Components (MCC)
DTA144EUA-TP

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Datasheet of DTA144EUA-TP - TRANS PREBIAS PNP 200MW SOT323

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components

Micro Commercial Components

20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

DTA144EUA

Features

- 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
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- The bias resistors consist of thin-film resistors with complete isolation to allow negative biasing of the input. They also have the advantage of almost completely eliminating parasitic effects.
- Only the on/off conditions need to be set for operation, making device design easy Halogen free available upon request by adding suffix "-HF"

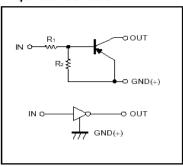
Absolute maximum ratings @ 25^{\circ}C

| ADSCIACS MAXIMAM FACINGS © 25 C | | | | | |
|---------------------------------------|----------------------|-----|-------------|-----|------------|
| Symbol | Parameter | Min | Тур | Max | Unit |
| V_{CC} | Supply voltage | | -50 | | V |
| V_{IN} | Input voltage | -40 | | 10 | V |
| I _O I _{C(MAX)} | Output current | | -30 -100 | | mA |
| P_d | Power dissipation | | 200 | | mW |
| Tj | Junction temperature | | 150 | | $^{\circ}$ |
| T _{stg} | Storage temperature | -55 | | 150 | $^{\circ}$ |

Electrical Characteristics @ 25 $^{\circ}$ C

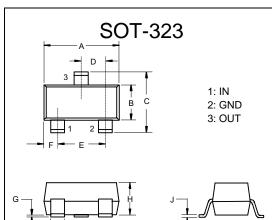
| Symbol | Parameter | Min | Тур | Max | Unit |
|--------------------------------|---|------|-----|-------|------|
| $V_{I(off)}$ | Input voltage (V _{CC} =-5V, I _O =-100 μ A) | | | -0.5 | V |
| $V_{I(on)}$ | $(V_0=-0.3V, I_0=-2mA)$ | -3.0 | | | V |
| $V_{O(on)}$ | Output voltage (I _O /I _I =-10mA/-0.5mA | | | -0.3 | V |
| I_{l} | Input current (V _I =-5V) | | | -0.18 | mA |
| I _{O(off)} | Output current (V _{CC} =-50V, V _I =0) | | | -0.5 | μА |
| Gı | DC current gain (V ₀ =-5V, I ₀ =-5mA) | 68 | | | |
| R ₁ | Input resistance | 32.9 | 47 | 61.1 | KΩ |
| R ₂ /R ₁ | Resistance ratio | 0.8 | 1.0 | 1.2 | |
| f⊤ | Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz) | | 250 | | MHz |

Equivalent circuit

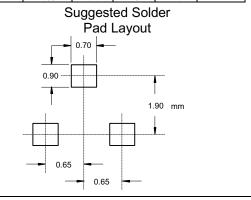


*Marking: 16

PNP Digital Transistors



| DIMENSIONS | | | | | | |
|------------|--------------|--------|-------------|------|------|--|
| | INC | INCHES | | MM | | |
| DIM | MIN | MAX | MIN | MAX | NOTE | |
| Α | .071 | .087 | 1.80 | 2.20 | | |
| В | .045 | .053 | 1.15 | 1.35 | | |
| С | .083 | .096 | 2.10 | 2.45 | | |
| D | .026 Nominal | | 0.65Nominal | | | |
| Е | .047 | .055 | 1.20 | 1.40 | | |
| F | .012 | .016 | .30 | .40 | | |
| G | .000 | .004 | .000 | .100 | | |
| Н | .035 | .039 | .90 | 1.00 | | |
| J | .004 | .010 | .100 | .250 | | |
| K | .006 | .016 | .15 | .40 | | |



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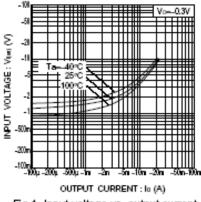


Fig.1 Input voltage vs. output current (ON characteristics)

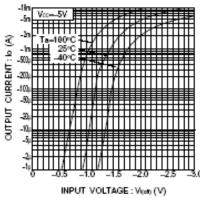


Fig.2 Output current vs. input voltage (OFF characteristics)

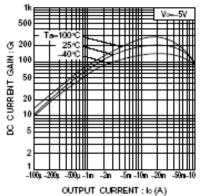


Fig.3 DC current gain vs. output current

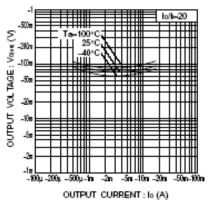


Fig.4 Output voltage vs. output current

Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

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Micro Commercial Components

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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