

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

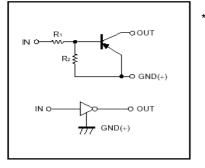
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- The bias 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°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 |
| Pd | Power dissipation | | 200 | | mW |
| Tj | Junction temperature | | 150 | | °C |
| T _{stg} | Storage temperature | -55 | | 150 | °C |

Electrical Characteristics @ 25°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 _o =-0.2V, I _o =-5mA) | -3.0 | | | V |
| V _{O(on)} | Output voltage (I ₀ /I _I =-10mA/-0.5mA | | | -0.3 | V |
| I, | Input current (V _I =-5V) | | | -0.36 | mA |
| I _{O(off)} | Output current (V _{CC} =-50V, V _I =0) | | | -0.5 | μA |
| Gı | DC current gain (V _o =-5V, I _o =-5mA) | 56 | | | |
| R ₁ | Input resistance | 15.4 | 22 | 28.6 | KΩ |
| R_2/R_1 | Resistance ratio | 0.8 | 1.0 | 1.2 | |
| f _T | Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz) | | 250 | | MHz |

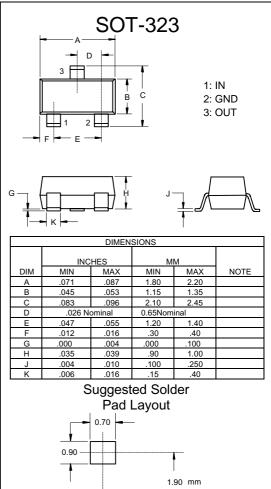
Equivalent circuit



*Marking: 15

PNP Digital Transistors

DTA124EUA



0.65

0.65

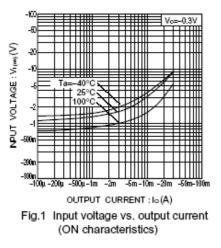
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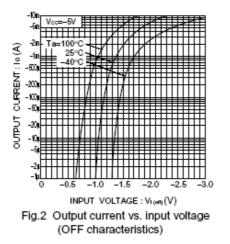
Revision: C

1 of 3

DTA124EUA

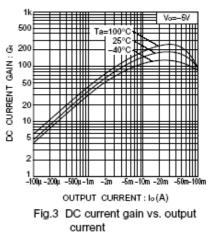
Electrical characteristic curves

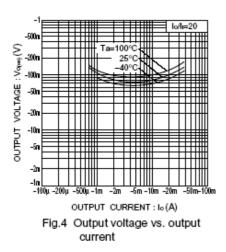






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Ordering Information :

| 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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