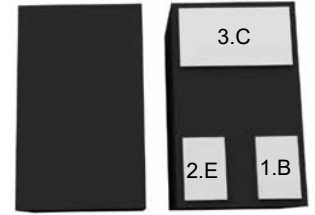


Features

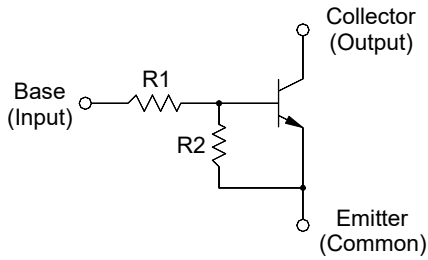
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process

DFN1x0.6-3L



1.Base 2.Emitter 3.Collector

Equivalent Circuit



Resistor Values/Marking Code

| Type | R1 (KΩ) | R2 (KΩ) | Marking Code |
|-----------|---------|---------|--------------|
| DTC124EDC | 22 | 22 | 6C |

Absolute Maximum Ratings (T_A=25°C)

| Parameter | Symbol | Value | Unit |
|---------------------------|------------------|-------------|------|
| Output Voltage | V _O | 50 | V |
| Input Voltage | V _I | 40,-10 | V |
| Output Current | I _O | 100 | mA |
| Maximum Power Dissipation | P _D | 200 | mW |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | °C |



DTC124EDC

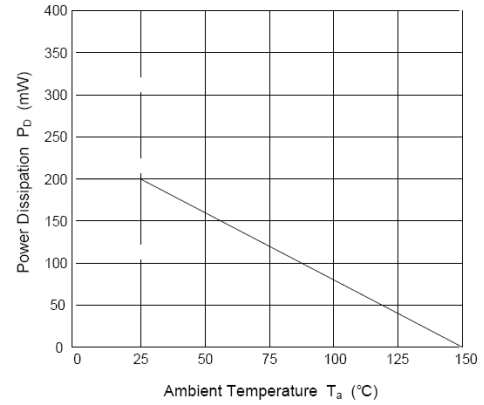
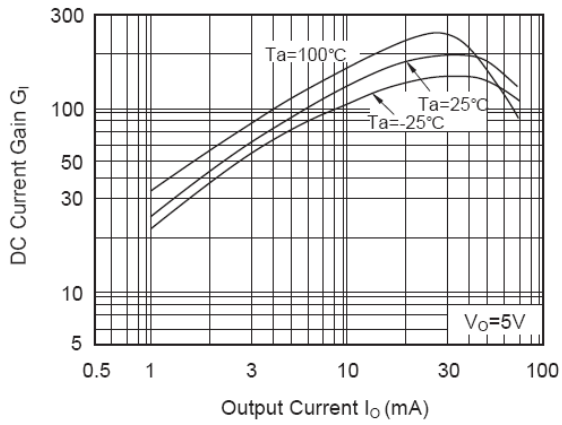
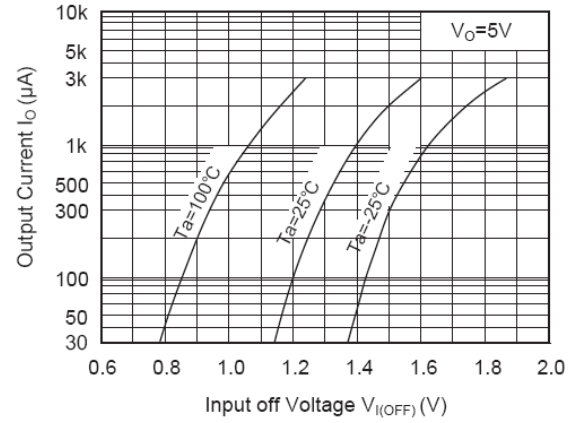
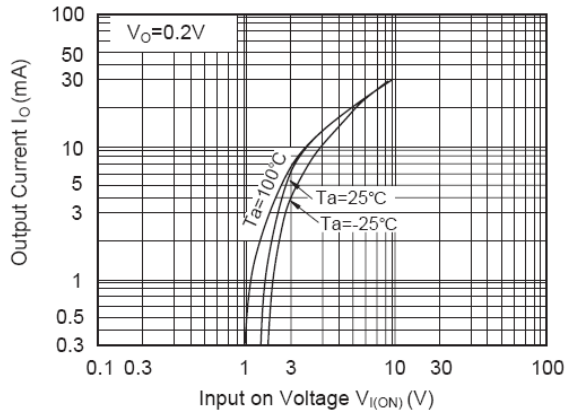
NPN Digital Transistor

Electrical Characteristics (T_A=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|--|---------------------|------|------|------|------|
| DC Current Gain at V _O = 5 V, I _O = 10 mA | G _I | 70 | -- | -- | -- |
| Output Cutoff Current at V _O = 50 V | I _{O(OFF)} | -- | -- | 500 | nA |
| Input Cutoff Current at V _I = 5 V | I _I | -- | -- | 0.36 | mA |
| Output Voltage (ON) at I _O = -10 mA, I _I = 0.5 mA | V _{O(ON)} | -- | -- | 0.3 | V |
| Input Voltage (ON) at V _O = 0.2 V, I _O = 5 mA | V _{I(ON)} | -- | -- | 3 | V |
| Input Voltage (OFF) at V _{CC} = 5 V, I _O = 0.1 mA | V _{I(OFF)} | 1 | -- | -- | V |
| Transition Frequency at V _O = 10 V, I _O = 5 mA | f _T | -- | 200 | -- | MHz |



Typical Characteristic Curves





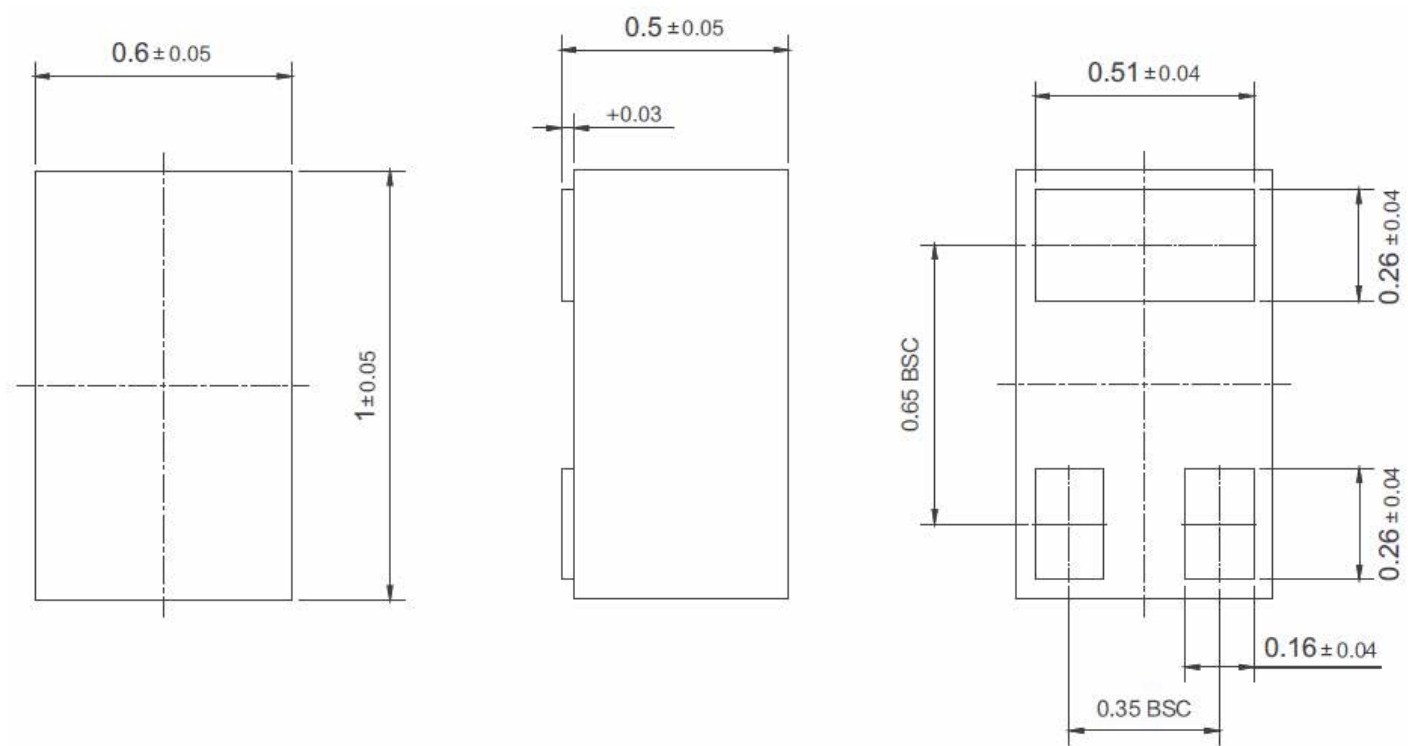
DTC124EDC

NPN Digital Transistor

Package Outline

DFN1x0.6-3L-0009

Dimensions in mm



Ordering Information

| Device | Package | Shipping |
|-----------|-------------|-----------------------|
| DTC124EDC | DFN1x0.6-3L | 3,000PCS/Reel&7inches |