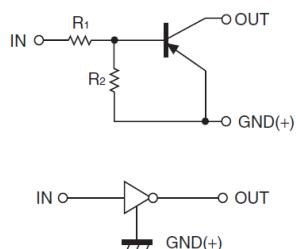
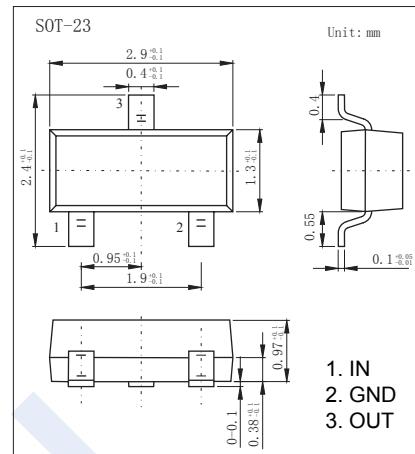


Digital Transistors

DTA124ECA (KDTA124ECA)

■ Features

- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see equivalent circuit)
- The bias resistors consist of thin-film resistors with complete isolation to allow positive 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



■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|---------------------------|--------|------------|------|
| Supply Voltage | Vcc | -50 | V |
| Input Voltage | Vin | -40~+10 | |
| Output Current | Io | -30 | mA |
| Peak Collector Current | Icm | -100 | |
| Power Dissipation | Pd | 200 | mW |
| Junction Temperature | Tj | 150 | °C |
| Storage Temperature range | Tstg | -55 to 150 | |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|----------------------|---------|-----------------------------|------|-----|-------|------|
| Input voltage | Vi(off) | Vcc= -5 V , Io=-100 uA | -0.5 | | | V |
| | Vi(on) | Vo= -0.2 V , Io=-5 mA | | | -3 | |
| Output voltage | Vo(on) | Io= -10 mA, Ii=-0.5 mA | | | -0.3 | |
| Input current | Ii | Vi= -5 V | | | -0.36 | mA |
| Output current | Io(off) | Vcc= -50 V , Vi=0 | | | -0.5 | uA |
| DC current gain | Gi | Vo=-5V,Io=-5mA | 56 | | | |
| Input resistance | R1 | | 15.4 | 22 | 28.6 | KΩ |
| Resistance ratio | R2/R1 | | 0.8 | 1 | 1.2 | |
| Transition frequency | fT | Vo= -10V, Io= -5mA,f=100MHz | | 250 | | MHz |

■ Marking

| | |
|---------|----|
| Marking | 15 |
|---------|----|

Digital Transistors

DTA124ECA (KDTA124ECA)

■ Typical Characteristics

