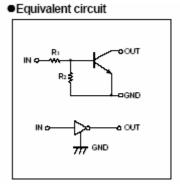


DTC114EE/DTC114EUA /DTC114EKA /DTC114ECA /DTC114ESA

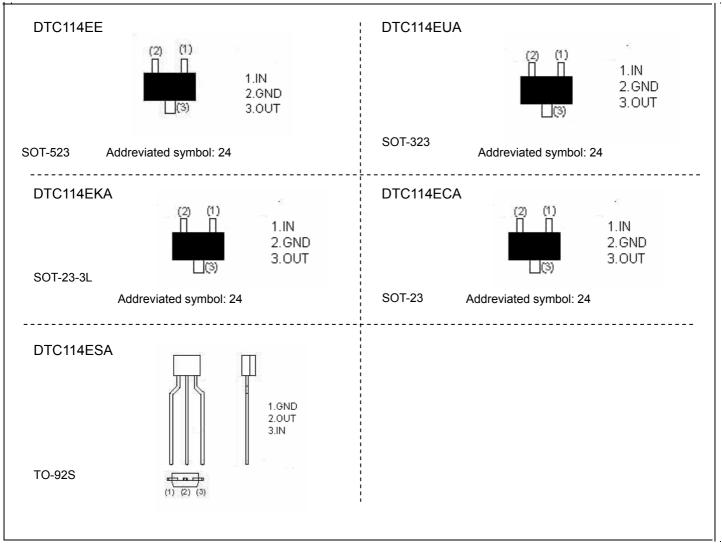
DIGITAL TRANSISTOR (NPN)

FEATURES

- 1. Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors(see equivalent circuit).
- 2. 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.
- 3. Only the on/off conditions need to be set for operation, making device design easy.



PIN CONNENCTIONS AND MARKING

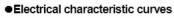


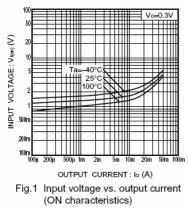
http://www.lgesemi.com

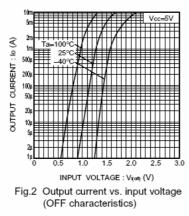
| E | UA | CA | KA | SA | Unit | | |
|---------|----|-----|----|----|------|--|--|
| | | | | 34 | Unit | | |
| | 50 | | | | | | |
| -10~40 | | | | | | | |
| 50 | | | | | | | |
| 100 | | | | | | | |
| 150 | | 300 | mW | | | | |
| 150 | | | | | | | |
| -55~150 | | | | | | | |
| | | | | | | | |

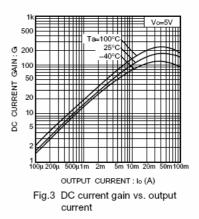
| Parameter | Symbol | Min. | Тур | Max. | Unit | Conditions |
|----------------------|--------------------------------|------|-----|------|------|---|
| Input voltage | V _{I(off)} | | | 0.5 | - v | V _{CC} =5V ,I _O =100µA |
| | V _{I(on)} | 3 | | | | V _O =0.3V ,I _O =10 mA |
| Output voltage | V _{O(on)} | | | 0.3 | V | I ₀ /I _I =10mA/0.5mA |
| Input current | lı | | | 0.88 | mA | V _I =5V |
| Output current | I _{O(off)} | | | 0.5 | μA | V _{CC} =50V, V _I =0 |
| DC current gain | Gı | 30 | | | | V _O =5V ,I _O =5mA |
| Input resistance | R ₁ | 7 | 10 | 13 | ΚΩ | |
| Resistance ratio | R ₂ /R ₁ | 0.8 | 1 | 1.2 | | |
| Transition frequency | f⊤ | | 250 | | MHz | V ₀ =10V ,I ₀ =5mA,f=100MHz |

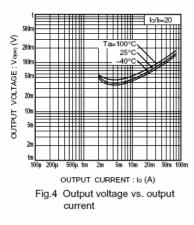
Typical Characteristics











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 2W01
 2W02
 2W04
 2W06

 2W08
 2W10
 B125D
 B125S
 B250D
 B250S
 B380D
 B380S
 B40D
 B40S
 B500D
 B500S
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 BAV102
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 BZM55C15
 BZM55C18
 BZM55C20
 BZM55C22
 BZM55C24
 BZM55C27

 BZM55C2V0
 BZM55C2V2
 BZM55C2V4
 BZM55C30
 BZM55C33
 BZM55C36
 BZM55C39