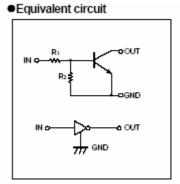


# DTC114EE/DTC114EUA /DTC114EKA /DTC114ECA /DTC114ESA

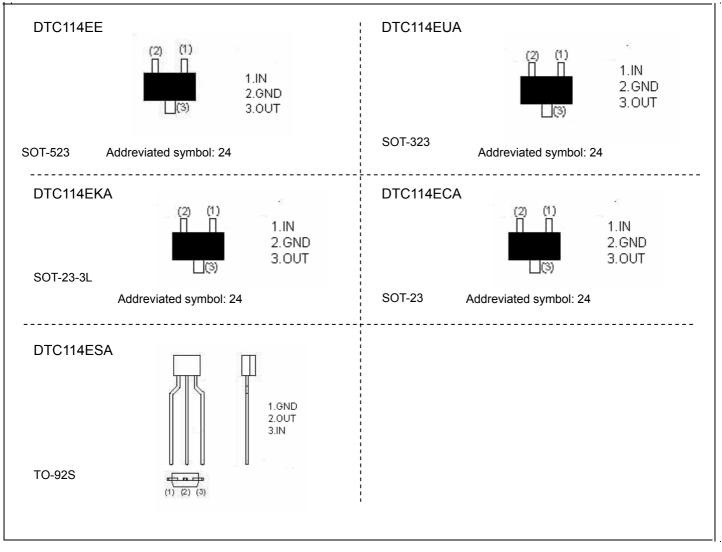
#### DIGITAL TRANSISTOR (NPN)

#### 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**

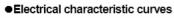


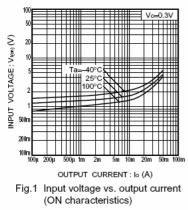
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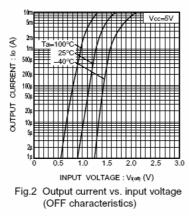
E	UA	CA	KA	SA	Unit		
				34	Unit		
	50						
-10~40							
50							
100							
150		300	mW				
150							
-55~150							

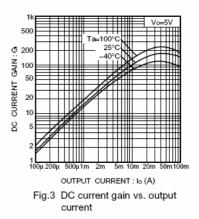
Parameter	Symbol	Min.	Тур	Max.	Unit	Conditions
Input voltage	V <sub>I(off)</sub>			0.5	- v	V <sub>CC</sub> =5V ,I <sub>O</sub> =100µA
	V <sub>I(on)</sub>	3				V <sub>O</sub> =0.3V ,I <sub>O</sub> =10 mA
Output voltage	V <sub>O(on)</sub>			0.3	V	I <sub>0</sub> /I <sub>I</sub> =10mA/0.5mA
Input current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

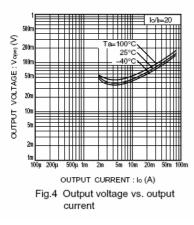
# **Typical Characteristics**











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 2W04
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 B125D
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 B380D
 B380S
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 BZM55C22
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 BZM55C2V0
 BZM55C2V2
 BZM55C2V4
 BZM55C30
 BZM55C33
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 BZM55C39