

## Dual Digital Transistors (NPN+PNP)

**FEATURES**

- DTA114E and DTC114E transistors are built-in a package
- Ideal for power switch circuits
- Mounting cost and area can be cut in half

**MARKING: C3****NPN DTC114E Absolute maximum ratings (Ta=25°C)**

Parameter	Symbol	Limits	Unit
<b>Supply voltage</b>	V <sub>CC</sub>	50	V
<b>Input voltage</b>	V <sub>IN</sub>	-10~+40	V
<b>Output current</b>	I <sub>O</sub>	50	mA
	I <sub>CM</sub>	100	
<b>Power dissipation</b>	P <sub>D</sub>	150	mW
<b>Junction temperature</b>	T <sub>j</sub>	150	°C
<b>Storage temperature</b>	T <sub>stg</sub>	-55~150	°C

**Electrical characteristics (Ta=25°C)**

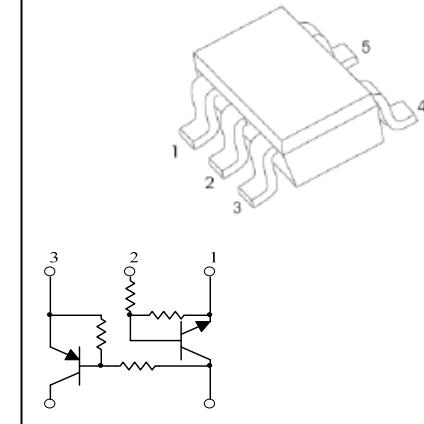
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
<b>Input voltage</b>	V <sub>I(off)</sub>	0.5			V	V <sub>CC</sub> =5V ,I <sub>O</sub> =100μA
	V <sub>I(on)</sub>			3		V <sub>O</sub> =0.3V ,I <sub>O</sub> =10mA
<b>Output voltage</b>	V <sub>O(on)</sub>			0.3	V	I <sub>O</sub> /I <sub>I</sub> =10mA/0.5mA
<b>Input current</b>	I <sub>I</sub>			0.88	mA	V <sub>I</sub> =5V
<b>Output current</b>	I <sub>O(off)</sub>			0.5	μA	V <sub>CC</sub> =50V, V <sub>I</sub> =0
<b>DC current gain</b>	G <sub>I</sub>	30				V <sub>O</sub> =5V,I <sub>O</sub> =5mA
<b>Input resistance</b>	R <sub>I</sub>	7	10	13	kΩ	
<b>Resistance ratio</b>	R <sub>2</sub> /R <sub>1</sub>	0.8	1	1.2		
<b>Transition frequency</b>	f <sub>T</sub>		250		MHz	V <sub>CE</sub> =10V ,I <sub>E</sub> =-5mA,f=100MHz

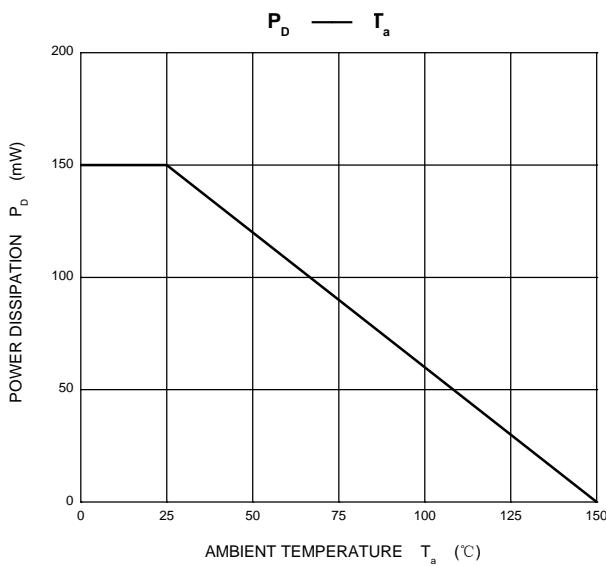
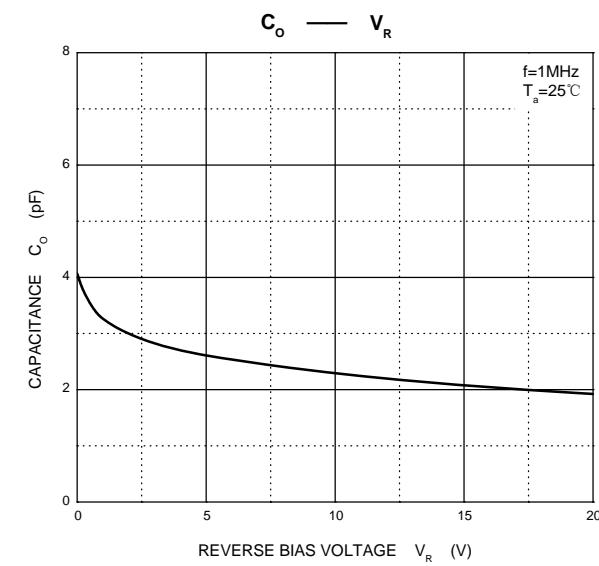
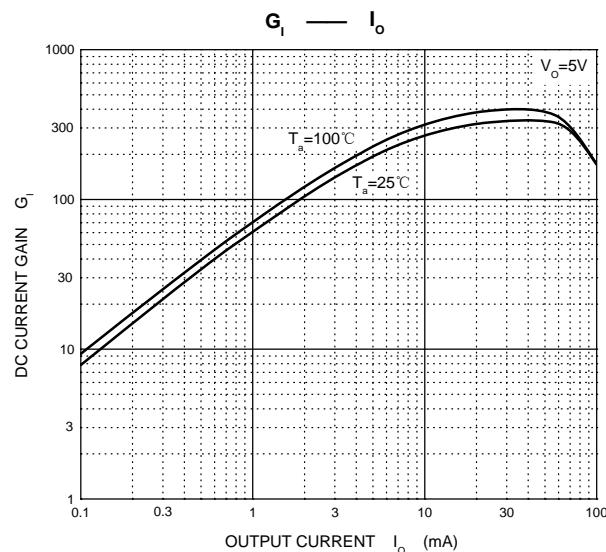
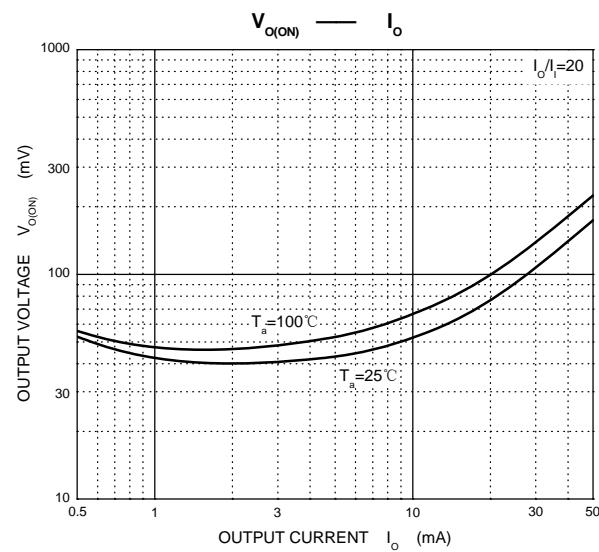
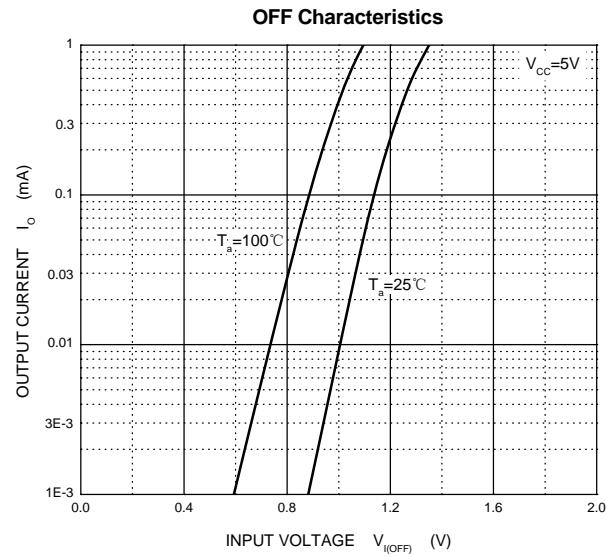
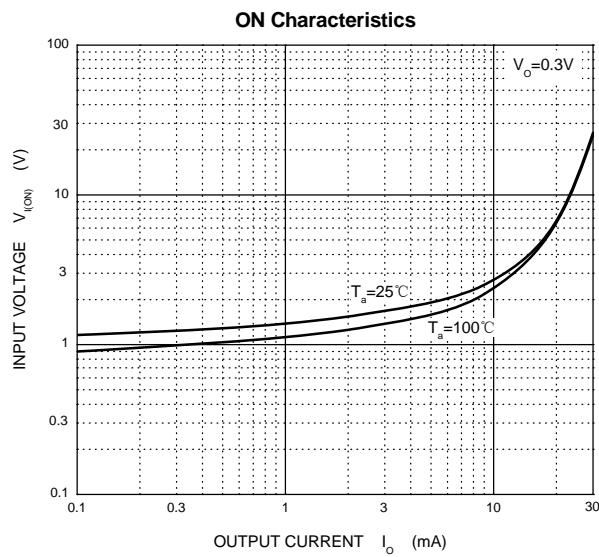
**PNP DTA114E Absolute maximum ratings (Ta=25°C)**

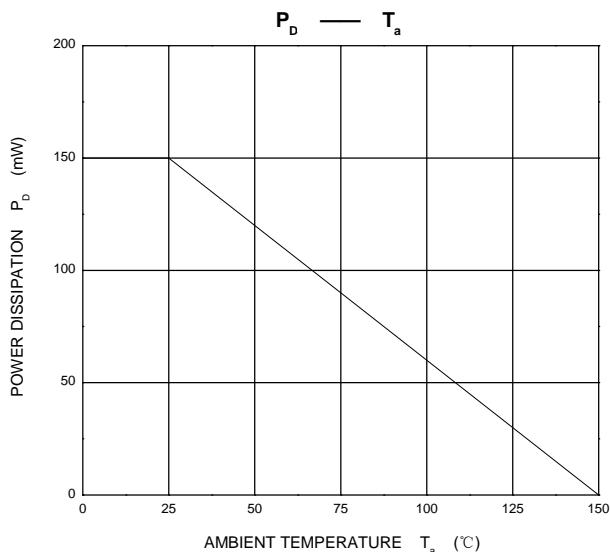
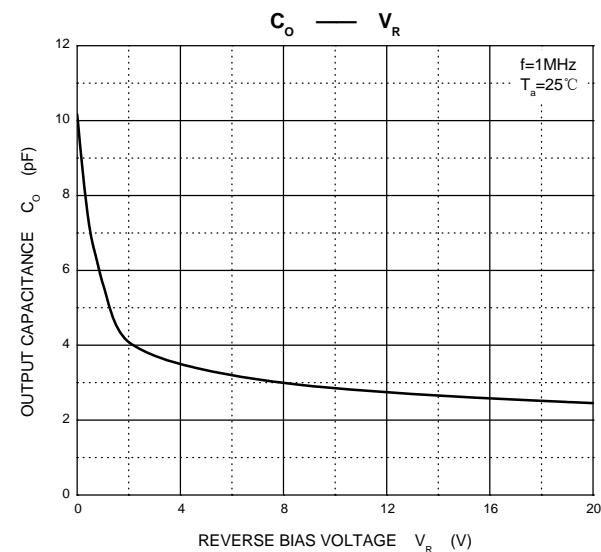
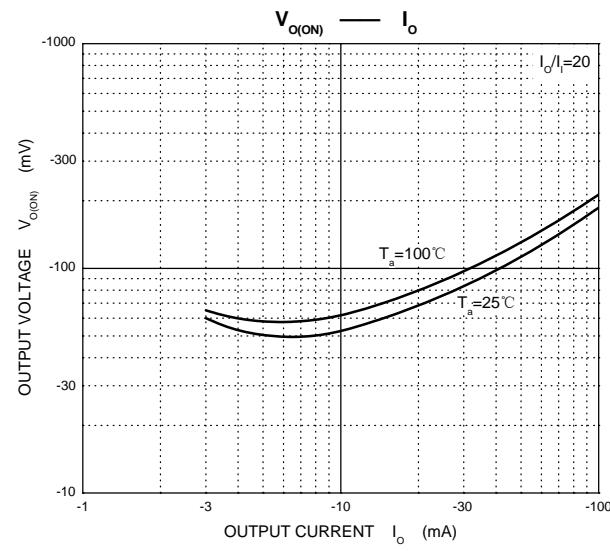
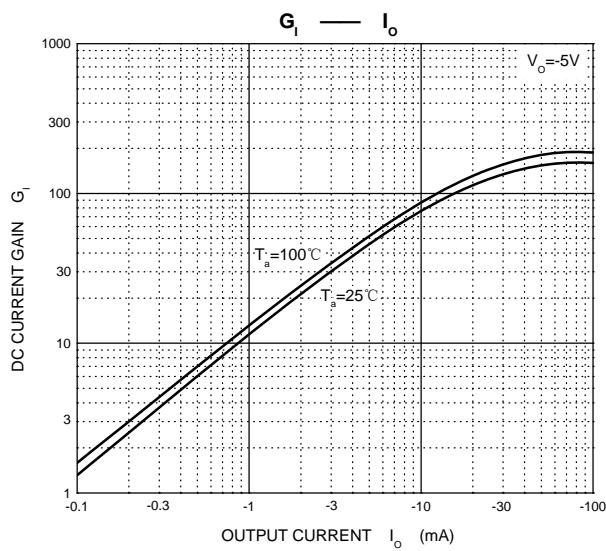
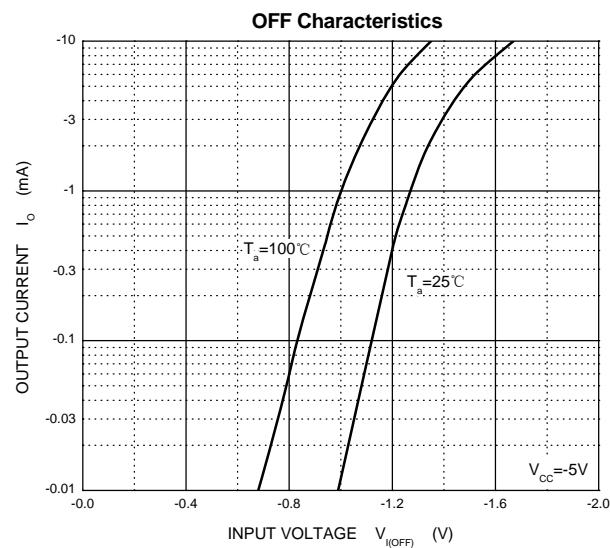
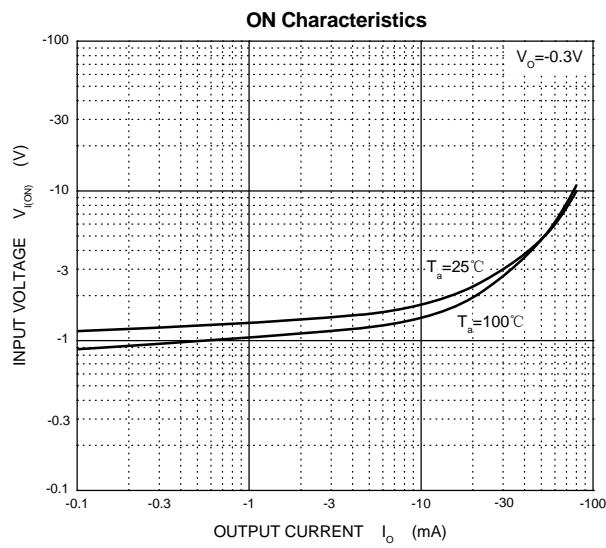
Parameter	Symbol	Limits	Unit
<b>Supply voltage</b>	V <sub>CC</sub>	-50	V
<b>Input voltage</b>	V <sub>IN</sub>	-40~+10	V
<b>Output current</b>	I <sub>O</sub>	-50	mA
	I <sub>CM</sub>	-100	
<b>Power dissipation</b>	P <sub>D</sub>	150	mW
<b>Junction temperature</b>	T <sub>j</sub>	150	°C
<b>Storage temperature</b>	T <sub>stg</sub>	-55~150	°C

**Electrical characteristics (Ta=25°C)**

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
<b>Input voltage</b>	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> =-10mA
<b>Output voltage</b>	V <sub>O(on)</sub>			-0.3	V	I <sub>O</sub> /I <sub>I</sub> =-10mA/-0.5mA
<b>Input current</b>	I <sub>I</sub>			-0.88	mA	V <sub>I</sub> =-5V
<b>Output current</b>	I <sub>O(off)</sub>			-0.5	μA	V <sub>CC</sub> =-50V, V <sub>I</sub> =0
<b>DC current gain</b>	G <sub>I</sub>	30				V <sub>O</sub> =-5V,I <sub>O</sub> =-5mA
<b>Input resistance</b>	R <sub>I</sub>	7	10	13	kΩ	
<b>Resistance ratio</b>	R <sub>2</sub> /R <sub>1</sub>	0.8	1	1.2		
<b>Transition frequency</b>	f <sub>T</sub>		250		MHz	V <sub>CE</sub> =-10V ,I <sub>E</sub> =5mA,f=100MHz

**SOT-353**





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