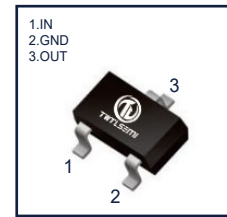
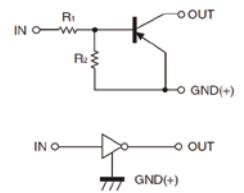


Features

- 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 negative 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



SOT-23



Equivalent Circuit

Absolute Maximum Ratings(TA=25℃)

Symbol	Parameter	Limits	Uniat
V _{CC}	Supply Voltage	-50	V
V _{IN}	Input Voltage	-40 ~ +10	V
I _O	Output Current	-50	mA
I _{CM}	Peak Collector Current	-100	mA
P _D	Power Dissipation	200	mW
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55 ~ +150	℃

Electrical Characteristics (TA=25℃ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _{I(off)}	Input voltage	V _{CC} =-5V, I _O =-100μA	-0.5			V
V _{I(on)}		V _O =-0.3V, I _O =-10mA			-3	V
V _{O(on)}	Output voltage	I _O /I _I =-10mA/-0.5mA			-0.3	V
I _I	Input current	V _I =-5V			-0.88	mA
I _{O(off)}	Output current	V _{CC} =-50V, V _I =0			-0.5	μA
G _I	DC current gain	V _O =-5V, I _O =-5mA	30			
R _I	Input resistance		7	10	13	kΩ
R ₂ /R ₁	Resistance ratio		0.8	1	1.2	
f _T	Transition frequency	V _O =-10V, I _O =-5mA, f=100MHz		250		MHz

Ordering information

Product ID	Marking	Naming rule	Pack	Qty(PCS)
DTA114ECA	14	DTA114ECA 产品名称 product name	SOT-23	3000



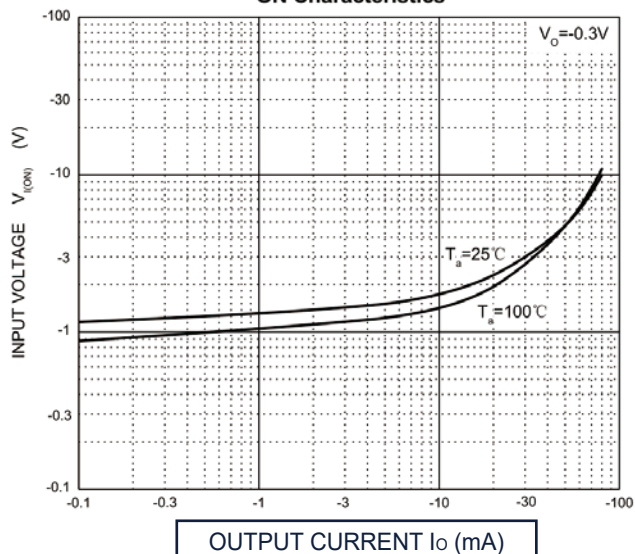
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TL-DTA114ECA

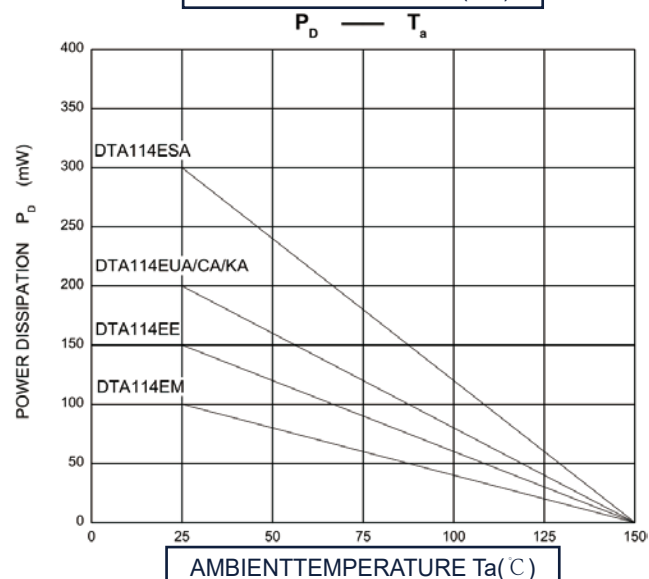
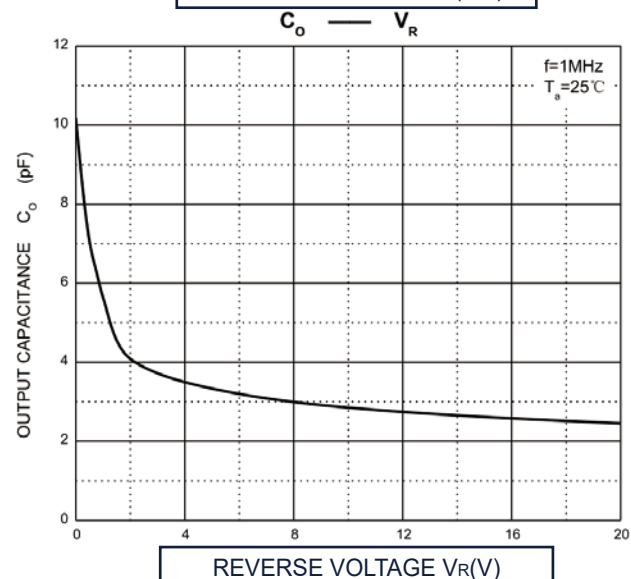
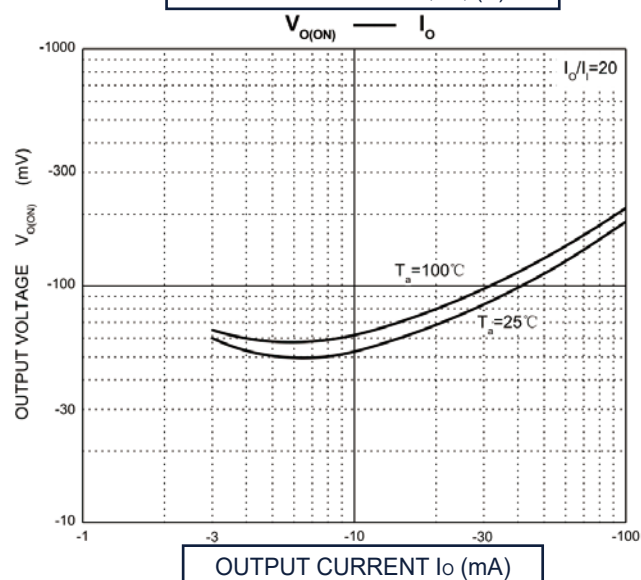
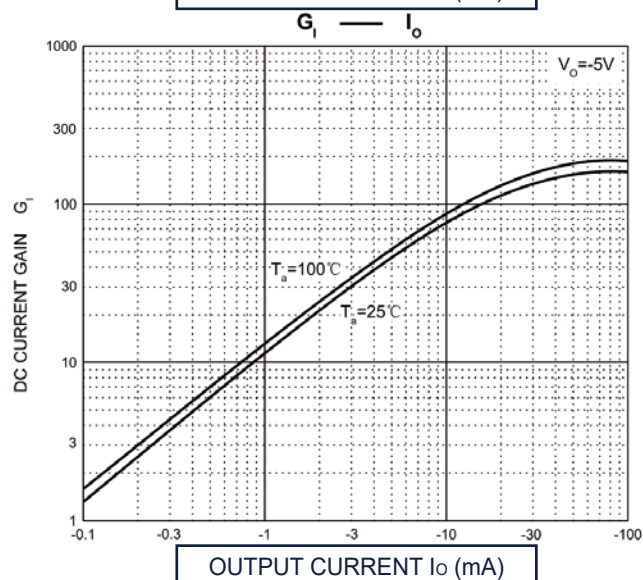
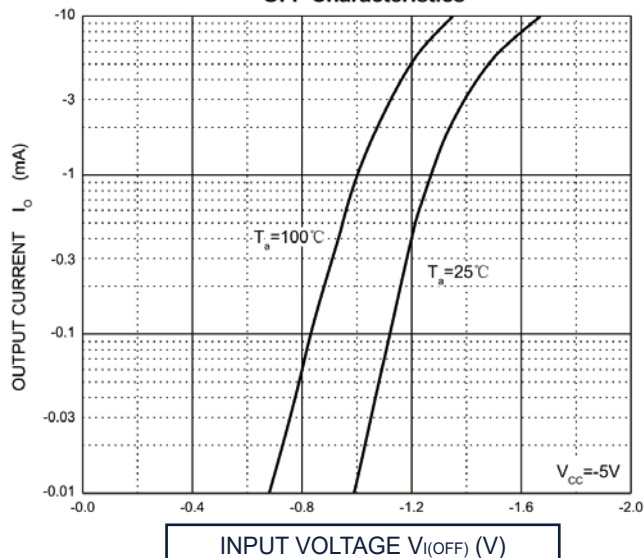
SOT-23 DIGITAL TRANSISTOR (PNP)

Typical Characteristics

ON Characteristics



OFF Characteristics





SOT23 Package Outline Dimensions



Symbol	Dimensions in Millimeters	
	mm	
	Min	Max
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°