

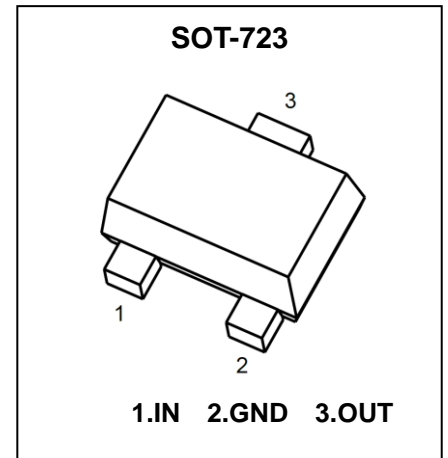
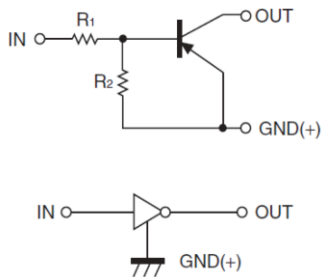


DTA144EM Digital Transistor(PNP)

Feature

- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- 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

Schematic diagram



Marking: 16

ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

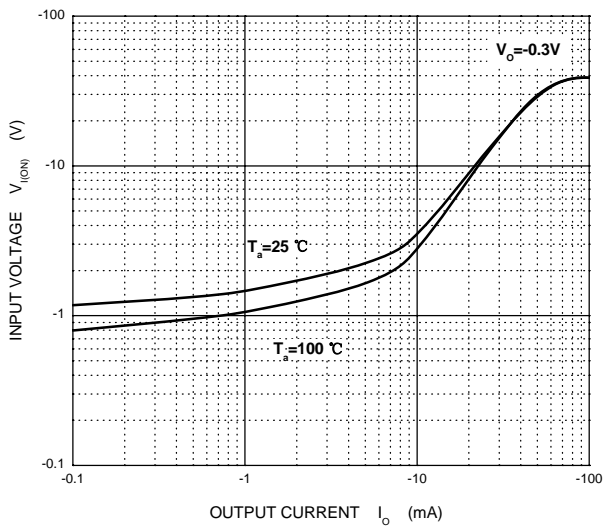
Parameter	Symbol	Value	Unit
Supply Voltage	V_{CC}	-50	V
Input Voltage	V_{IN}	-40~+10	V
Output Current	I_o	-100	mA
Power Dissipation	P_D	150	mW
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-45 ~ +125	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

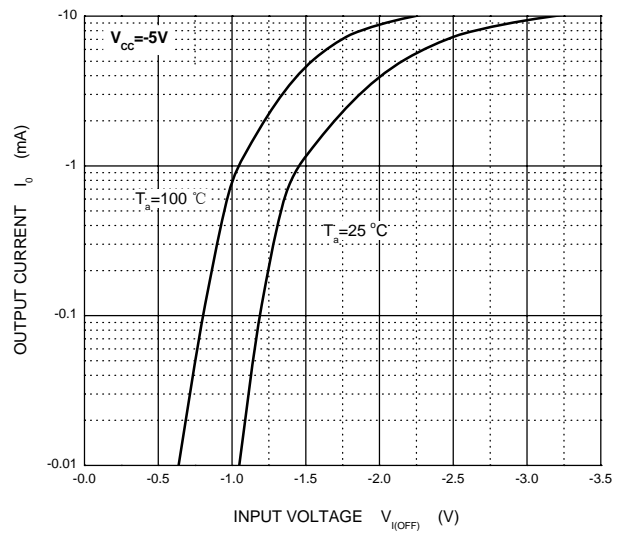
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Input voltage	$V_{I(off)}$	$V_{CC}=-5V, I_o=-100\mu A$	-0.5			V
	$V_{I(on)}$	$V_o=-0.3V, I_o=-2mA$			-3	V
Output voltage	$V_{O(on)}$	$I_o=-10mA, I_i=-0.5mA$			-0.3	V
Input current	I_i	$V_i=-5V$			0.18	mA
Output current	$I_{O(off)}$	$V_{CC}=-50V, V_i=0V$			-0.5	μA
DC current gain	G_i	$V_o=-5V, I_o=-5mA$	68			
Input resistance	R_1		32.9	47	61.1	k Ω
Resistance ratio	R_2/R_1		0.8	1	1.2	
Transition frequency	f_T	$V_o=-10V, I_o=-5mA, f=1MHz$		250		MHz

Typical Characteristics

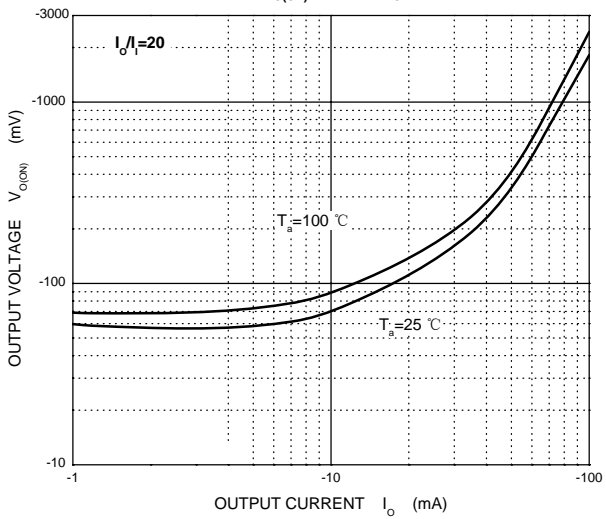
ON Characteristics



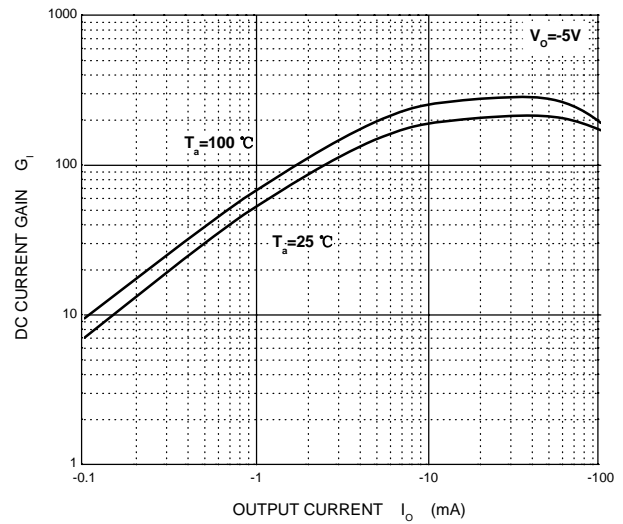
OFF Characteristics



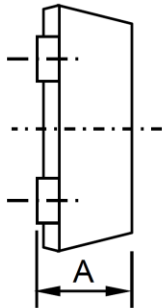
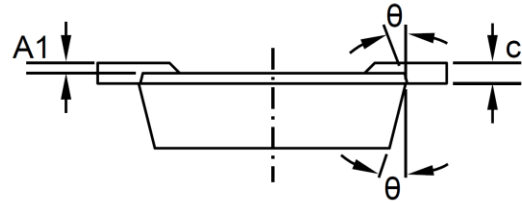
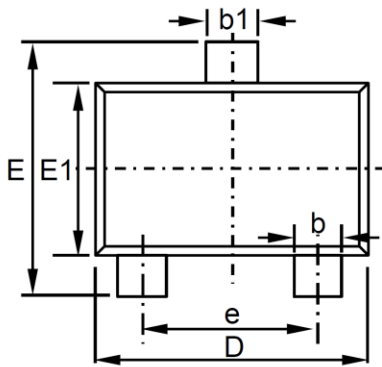
$V_{O(ON)} - I_o$



$G_i - I_o$



SOT-723 Package Information



SOT-723 (unit: mm)		
Dim.	Min.	Max.
A	0.40	0.50
A1	0.00	0.05
b	0.15	0.27
b1	0.20	0.37
c	0.06	0.16
D	1.10	1.30
E	1.10	1.30
E1	0.70	0.90
e	0.80 TYP.	
θ	7° REF.	

单击下面可查看定价，库存，交付和生命周期等信息

[>>GP\(格瑞宝\)](#)