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DTA123JKA

PNP Digital Transistors

Features

- 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 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

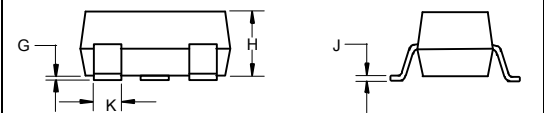
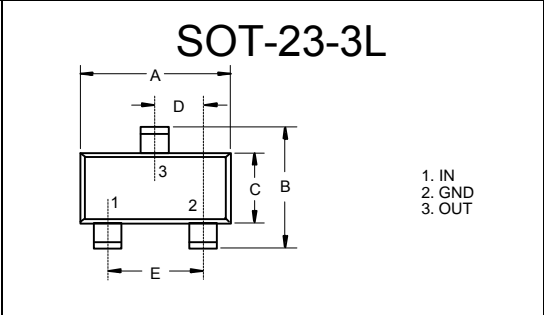
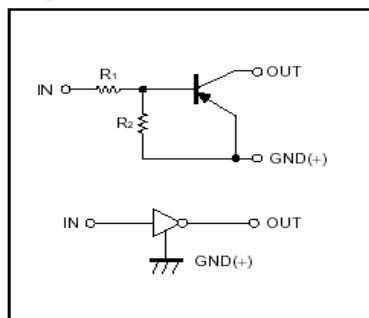
Absolute maximum ratings @ 25°C

Symbol	Parameter	Min	Typ	Max	Unit
V_{CC}	Supply voltage	---	-50	---	V
V_{IN}	Input voltage	-12	---	5	V
I_o	Output current	---	-100	---	mA
$I_{C(MAX)}$	Output current	---	-100	---	mA
P_d	Power dissipation	---	200	---	mW
T_j	Junction temperature	---	150	---	°C
T_{stg}	Storage temperature	-55	---	150	°C

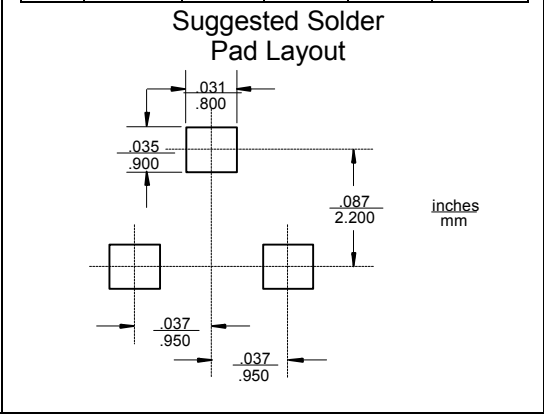
Electrical Characteristics @ 25°C

Symbol	Parameter	Min	Typ	Max	Unit
$V_{I(off)}$	Input voltage ($V_{CC}=-5V, I_o=-100 \mu A$)	---	---	-0.5	V
$V_{I(on)}$	Input voltage ($V_o=-0.3V, I_o=-5mA$)	-1.1	---	---	V
$V_{O(on)}$	Output voltage ($I_o/I_i=-5mA/-0.25mA$)	---	---	-0.3	V
I_i	Input current ($V_i=-5V$)	---	---	-3.6	mA
$I_{O(off)}$	Output current ($V_{CC}=-50V, V_i=0$)	---	---	-0.5	μA
G_1	DC current gain ($V_o=-5V, I_o=-10mA$)	80	---	---	
R_1	Input resistance	1.54	2.2	2.86	K Ω
R_2/R_1	Resistance ratio	17	21	26	
f_T	Transition frequency ($V_{CE}=-10V, I_E=5mA, f=100MHz$)	---	250	---	MHz

Equivalent circuit



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.113	.117	2.87	2.97	
B	.108	.112	2.75	2.85	
C	.061	.065	1.55	1.65	
D	.036	.038	.925	.975	
E	.073	.077	1.85	1.95	
G	.0016	.0039	.04	.100	
H	.044	.049	1.12	1.25	
J	.006	.007	.14	.17	
K	.013	.015	.34	.37	



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● **Electrical characteristic curves**

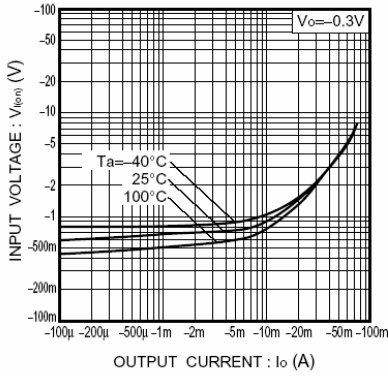


Fig.1 Input voltage vs. output current (ON characteristics)

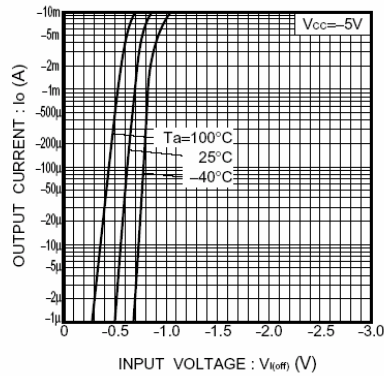


Fig.2 Output current vs. input voltage (OFF characteristics)

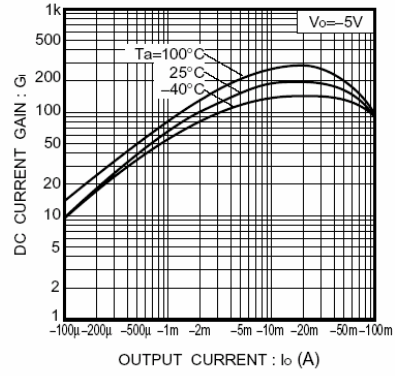


Fig.3 DC current gain vs. output current

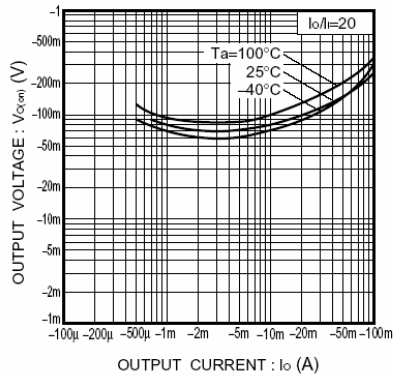


Fig.4 Output voltage vs. output current