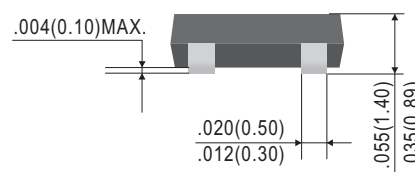
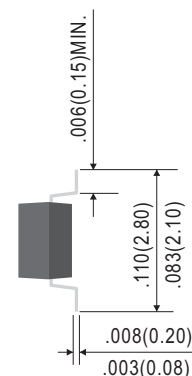
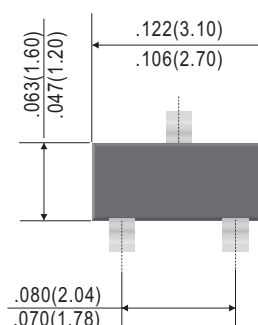


Features

- **Pb-Free package is available**
RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- 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

SOT-23



Dimensions in inches and (millimeters)

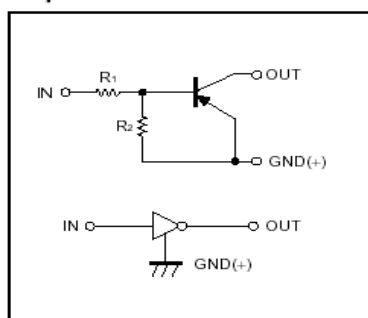
Absolute maximum ratings @ 25°C

Symbol	Parameter	Min	Typ	Max	Unit
V_{CC}	Supply voltage	---	-50	---	V
V_{IN}	Input voltage	-40	---	10	V
I_O $I_{C(MAX)}$	Output current	---	-30 -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

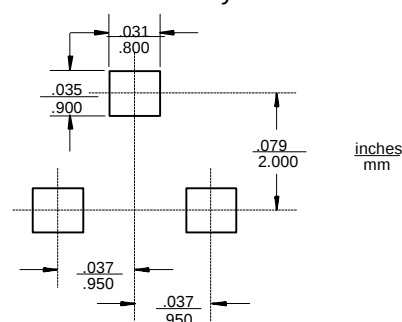
Symbol	Parameter	Min	Typ	Max	Unit
$V_{I(off)}$	Input voltage ($V_{CC}=-5V$, $I_O=-100\mu A$)	-0.5	---	---	V
$V_{I(on)}$	Input voltage ($V_O=0.2V$, $I_O=-5mA$)	---	---	-3.0	V
$V_{O(on)}$	Output voltage ($I_O/I_I=-10mA/-0.5mA$)	---	---	-0.3	V
I_I	Input current ($V_I=-5V$)	---	---	-0.36	mA
$I_{O(off)}$	Output current ($V_{CC}=-50V$, $V_I=0$)	---	---	-0.5	μA
G_I	DC current gain ($V_O=-5V$, $I_O=-5mA$)	56	---	---	---
R_1	Input resistance	15.4	22	28.6	K Ω
R_2/R_1	Resistance ratio	0.8	1.0	1.2	---
f_T	Transition frequency ($V_O=-10V$, $I_O=5mA$, $f=100MHz$)	---	250	---	MHz

●Equivalent circuit



*Marking: 15

Suggested Solder Pad Layout





WILLAS



PNP Digital Transistor

DTA124ECA

●Electrical characteristic curves

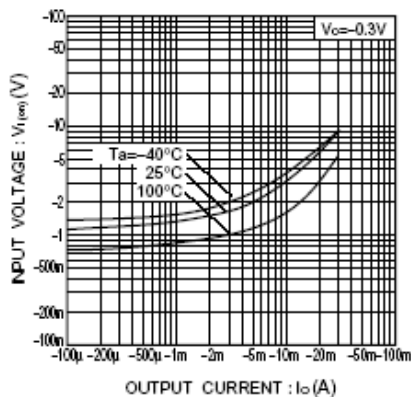


Fig.1 Input voltage vs. output current (ON characteristics)

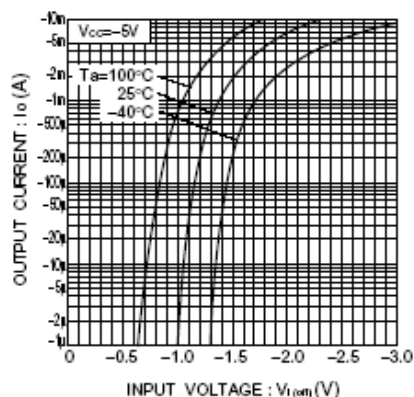


Fig.2 Output current vs. input voltage (OFF characteristics)

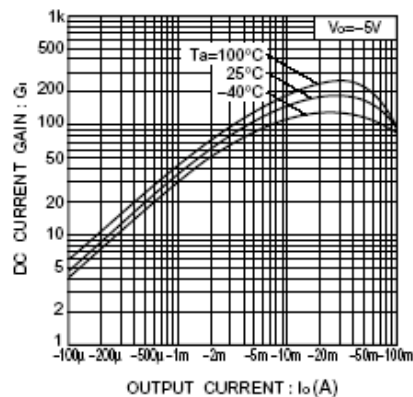


Fig.3 DC current gain vs. output current

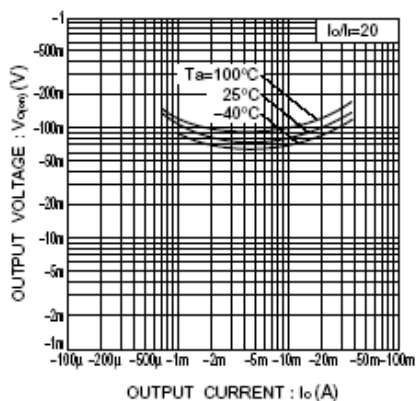


Fig.4 Output voltage vs. output current

Ordering Information:

Device PN	Packing
DTA124ECA-T ⁽¹⁾ G ⁽²⁾ -WS	Tape& Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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