



Micro Commercial Components



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DTA143ZCA

PNP Digital Transistors

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- 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
- Halogen free available upon request by adding suffix "-HF"

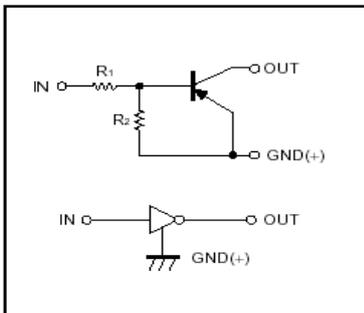
Absolute maximum ratings @ 25°C

Symbol	Parameter	Min	Typ	Max	Unit
V_{CC}	Supply voltage	---	-50	---	V
V_{IN}	Input voltage	-30	---	5.0	V
I_O	Output current	---	-100	---	mA
$I_{C(MAX)}$		---	-100	---	
P_d	Power dissipation	---	200	---	mW
T_j	Junction temperature	---	150	---	°C
T_{stg}	Storage temperature	-55	---	150	°C

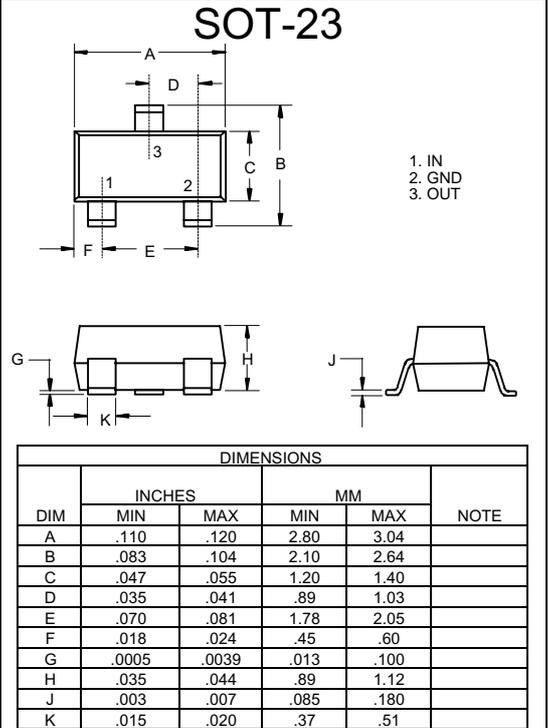
Electrical Characteristics @ 25°C

Symbol	Parameter	Min	Typ	Max	Unit
$V_{I(off)}$	Input voltage ($V_{CC}=-5V, I_O=-100 \mu A$)	---	---	-0.5	V
$V_{I(on)}$	($V_O=-0.3V, I_O=-5mA$)	-1.3	---	---	V
$V_{O(on)}$	Output voltage ($I_O/I_I=-5mA/-0.25mA$)	---	---	-0.3	V
I_I	Input current ($V_I=-5V$)	---	---	-1.8	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	3.29	4.7	6.11	K Ω
R_2/R_1	Resistance ratio	8.0	10	12	
f_T	Transition frequency ($V_{CE}=-10V, I_E=5mA, f=100MHz$)	---	250	---	MHz

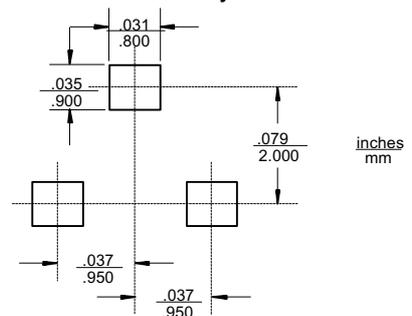
Equivalent circuit



*Marking: E13



Suggested Solder Pad Layout



● Electrical characteristic curves

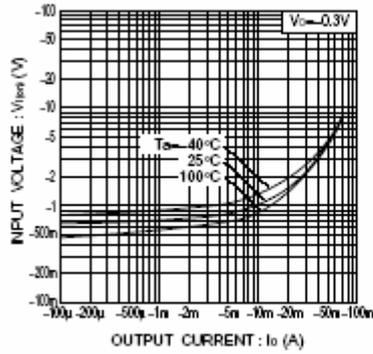


Fig.1 Input voltage vs. output current (ON characteristics)

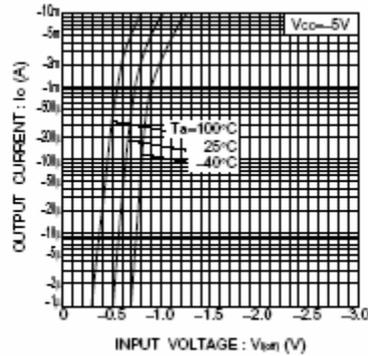


Fig.2 Output current vs. input voltage (OFF characteristics)

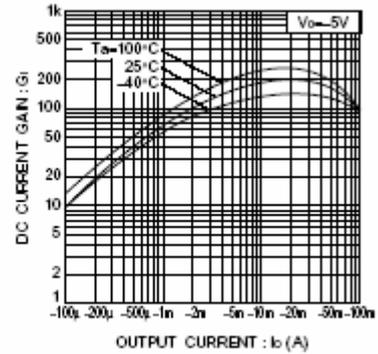


Fig.3 DC current gain vs. output current

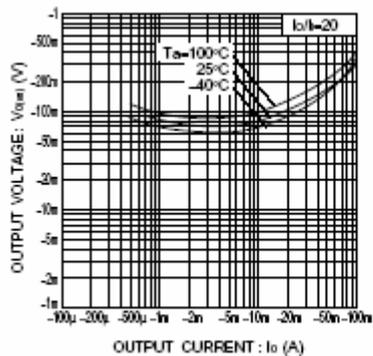


Fig.4 Output voltage vs. output current



TM

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 3Kpcs/Reel

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