勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 (818) 701-4939

DTA143ZUA

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure 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

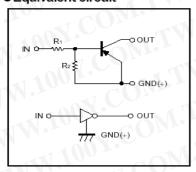
Absolute maximum ratings @ 25° C

Symbol	Parameter	Min	Тур	Max	Unit
Vcc	Supply voltage		-50		V
V _{IN}	Input voltage	-30	0-4	5.0	V
I _O	Output current	1.77	-100 -100		mA
P _d	Power dissipation		200		mW
Ţ	Junction temperature	- 1 -	150		$^{\circ}$ C
T _{stq}	Storage temperature	-55		150	$^{\circ}$ C

Electrical Characteristics @ 25℃

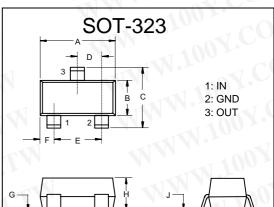
Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =-5V, I _O =-100 μ A)			-0.5	V
$V_{I(on)}$	$(V_0=-0.3V, I_0=-5mA)$	-1.3			V
V _{O(on)}	Output voltage (I _O /I _I =-5mA/-0.25mA	17-7-		-0.3	V
l _l	Input current (V _I =-5V)		_ 1	-1.8	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)		1740	-0.5	μА
Gı	DC current gain (V _O =-5V, I _O =-10mA)	80		~ ~ 0	V
R ₁	Input resistance	3.29	4.7	6.11	ΚΩ
R ₂ /R ₁	Resistance ratio	8.0	10	12	~ 1
f _T	Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz)	7.3	250	140	MHz

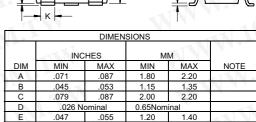
Equivalent circuit

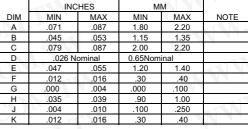


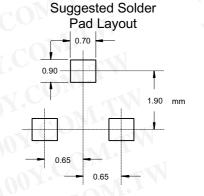
*Marking: 113

PNP Digital Transistors









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Electrical characteristic curves

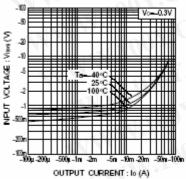


Fig.1 Input voltage vs. output current (ON characteristics)

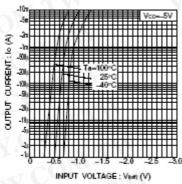


Fig.2 Output current vs. input voltage (OFF characteristics)

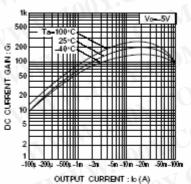


Fig.3 DC current gain vs. cutput current

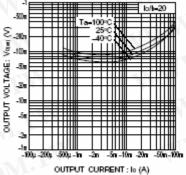


Fig.4 Output voltage vs. output

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Ordering Information:

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

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