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Micro Commercial Components (MCC)
DTA143ZUA-TP

For any questions, you can email us directly: sales@integrated-circuit.com



Datasheet of DTA143ZUA-TP - TRANS PREBIAS PNP 200MW SOT323

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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DTA143ZUA

Features

- 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

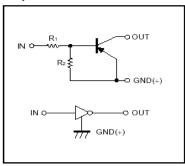
Halogen free available upon request by adding suffix "-HF"
 Ahsolute maximum ratings @ 25°C

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Symbol	Parameter	Min	Тур	Max	Unit
V _{cc}	Supply voltage		-50		V
V _{IN}	Input voltage	-30		5.0	V
I _O I _{C(MAX)}	Output current		-100 -100		mA
P_d	Power dissipation		200		mW
Tj	Junction temperature		150		$^{\circ}$
Teta	Storage temperature	-55		150	$^{\circ}$

Electrical Characteristics @ 25℃

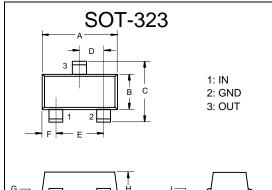
Symbol	Parameter		Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =-5V, I _O =-100 μ A)			-0.5	V
$V_{I(on)}$	$(V_0=-0.3V, I_0=-5mA)$	-1.3			V
$V_{O(on)}$	Output voltage (I _O /I _I =-5mA/-0.25mA			-0.3	V
I_{l}	Input current (V _I =-5V)			-1.8	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)			-0.5	μА
Gı	DC current gain (V _O =-5V, I _O =-10mA)	80			
R ₁	Input resistance	3.29	4.7	6.11	ΚΩ
R_2/R_1	Resistance ratio	8.0	10	12	
f⊤	Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz)		250		MHz

Equivalent circuit

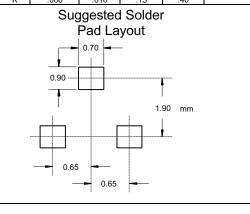


*Marking: 113

PNP Digital Transistors



DIMENSIONS						
	INC	HES	MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.071	.087	1.80	2.20		
В	.045	.053	1.15	1.35		
С	.083	.096	2.10	2.45		
D	.026 No	.026 Nominal		0.65Nominal		
Е	.047	.055	1.20	1.40		
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Н	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	006	016	15	40		





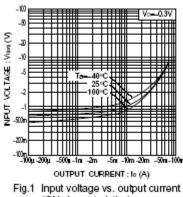
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Electrical characteristic curves



(ON characteristics)

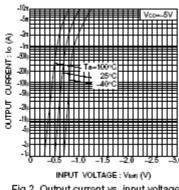


Fig.2 Output current vs. input voltage (OFF characteristics)

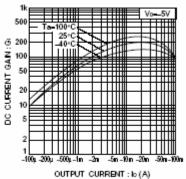


Fig.3 DC current gain vs. output current

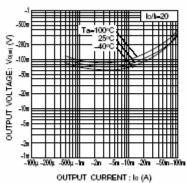


Fig.4 Output voltage vs. output

Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

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Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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