Excellent Integrated System Limited

Stocking Distributor

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Micro Commercial Components (MCC)
DTA143EUA-TP

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



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



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

DTA143EUA

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"

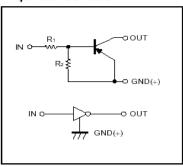
Absolute maximum ratings @ 25°

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Symbol	Parameter	Min	Тур	Max	Unit
V_{CC}	Supply voltage		-50		V
V_{IN}	Input voltage	-30		10	V
I _O I _{C(MAX)}	Output current		-100 -100		mA
P_d	Power dissipation		200		mW
Tj	Junction temperature		150		$^{\circ}$
T _{stq}	Storage temperature	-55		150	$^{\circ}$ C

Electrical Characteristics @ 25° C

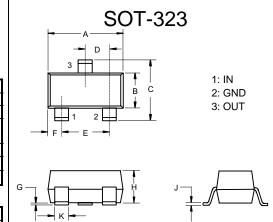
Symbol	Parameter		Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =-5V, I _O =-100 μ A)			-0.5	V
$V_{I(on)}$	$(V_0=-0.3V, I_0=-20mA)$	-3.0			V
$V_{O(on)}$	Output voltage (I _O /I _I =-10mA/-0.5mA			-0.3	V
I_{l}	Input current (V _I =-5V)			-1.8	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)			-0.5	μА
Gı	DC current gain (V _O =-5V, I _O =-10mA)	30			
R ₁	Input resistance	3.29	4.7	6.11	ΚΩ
R ₂ /R ₁	Resistance ratio	0.8	1.0	1.2	
f⊤	Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz)		250		MHz

Equivalent circuit

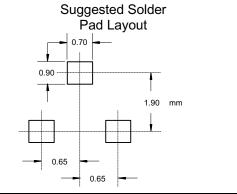


*Marking: 13

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	ominal	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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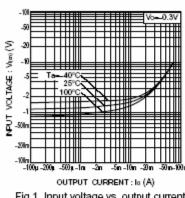


Fig.1 Input voltage vs. output current (ON characteristics)

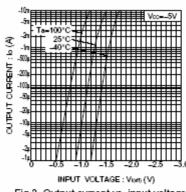


Fig.2 Output current vs. input voltage (OFF characteristics)

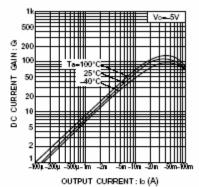


Fig.3 DC current gain vs. output current

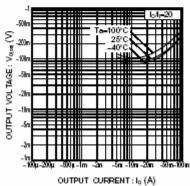


Fig.4 Output voltage vs. output current

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

Datasheet of DTA143EUA-TP - TRANS PREBIAS PNP 200MW SOT323

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Micro Commercial Components

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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