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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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"

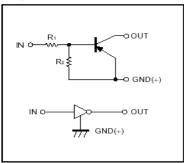
Absolute maximum ratings @ 25°C

Aboolato maximam ratingo © 20 C							
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		°C		
T _{sta}	Storage temperature	-55		150	$^{\circ}\mathbb{C}$		

Electrical Characteristics @ 25 $^{\circ}$

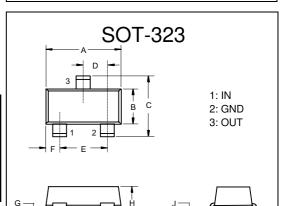
Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =-5V, I _O =-100 μ A)			-0.5	V
$V_{I(on)}$	$(V_O = -0.3V, I_O = -20mA)$	-3.0			V
$V_{O(on)}$	Output voltage (I _O /I _I =-10mA/-0.5mA			-0.3	V
l _l	Input current (V _I =-5V)			-1.8	mA
$I_{O(off)}$	Output current (V _{CC} =-50V, V _I =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

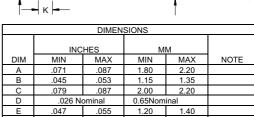
Equivalent circuit

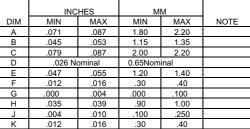


*Marking: 13

PNP Digital Transistors







Suggested Solder Pad Layout 0.70 0.90 1.90 mm 0.65 0.65

DTA143EUA



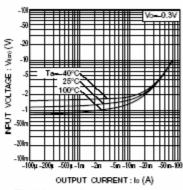


Fig.1 Input voltage vs. output current (ON characteristics)

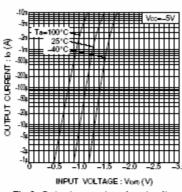


Fig.2 Output current vs. input voltage (OFF characteristics)

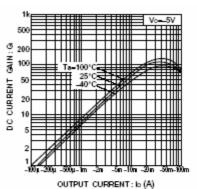
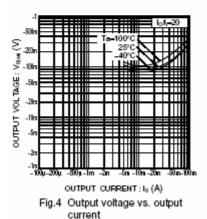


Fig.3 DC current gain vs. output current





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Ordering Information:

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

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

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