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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** 

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## DTA123JUA

## **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
- device design easy

  Halogen free available upon request by adding suffix "-HF"

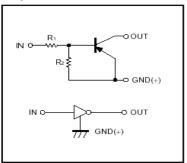
Absolute maximum ratings @  $25^{\circ}$ 

Aboutato inaximam ratingo © 20 C					
Symbol	Parameter	Min	Тур	Max	Unit
$V_{CC}$	Supply voltage		-50		V
$V_{IN}$	Input voltage	-12		5	٧
I <sub>O</sub> I <sub>C(MAX)</sub>	Output current		-100 -100		mA
$P_d$	Power dissipation		200		mW
$T_j$	Junction temperature		150		$^{\circ}$
T <sub>stg</sub>	Storage temperature	-55		150	$^{\circ}$ C

### **Electrical Characteristics @ 25°**€

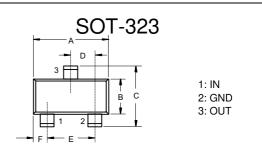
Symbol	Parameter		Тур	Max	Unit
$V_{I(off)}$	Input voltage (V <sub>CC</sub> =-5V, I <sub>O</sub> =-100 μ A)			-0.5	V
$V_{I(on)}$	$(V_O = -0.3V, I_O = -5mA)$	-1.1			V
$V_{O(on)}$	Output voltage (I <sub>O</sub> /I <sub>I</sub> =-5mA/-0.25mA			-0.3	V
l <sub>l</sub>	Input current (V <sub>I</sub> =-5V)			-3.6	mA
I <sub>O(off)</sub>	Output current (V <sub>CC</sub> =-50V, V <sub>I</sub> =0)			-0.5	μА
Gı	DC current gain (V <sub>O</sub> =-5V, I <sub>O</sub> =-10mA)	80			
R <sub>1</sub>	Input resistance	1.54	2.2	2.86	ΚΩ
R <sub>2</sub> /R <sub>1</sub>	Resistance ratio	17	21	26	
f⊤	Transition frequency (V <sub>CE</sub> =-10V, I <sub>E</sub> =5mA, f=100MHz)		250		MHz

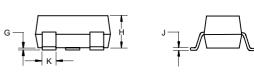
#### Equivalent circuit



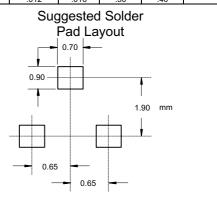
\*Marking: 132

# PNP Digital Transistors





DIMENSIONS						
INC	HES	MM				
MIN	MAX	MIN	MAX	NOTE		
.071	.087	1.80	2.20			
.045	.053	1.15	1.35			
.079	.087	2.00	2.20			
.026 Nominal		0.65Nominal				
.047	.055	1.20	1.40			
.012	.016	.30	.40			
.000	.004	.000	.100			
.035	.039	.90	1.00			
.004	.010	.100	.250			
.012	.016	.30	.40			
	MIN .071 .045 .079 .026 No .047 .012 .000 .035	INCHES   MIN   MAX   .071   .087   .045   .053   .079   .087   .026   Nominal   .047   .055   .012   .016   .000   .004   .010   .004   .010	INCHES	INCHES   MM   MAX   MIN   MAX   MIN   MAX   MIN   MI		



# DTA123JUA



#### •Electrical characteristic curves

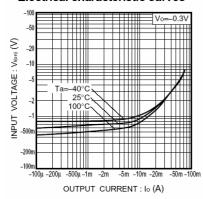


Fig.1 Input voltage vs. output current (ON characteristics)

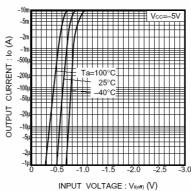


Fig.2 Output current vs. input voltage (OFF characteristics)

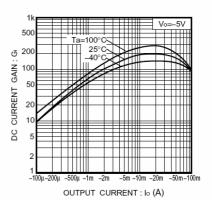


Fig.3 DC current gain vs. output current

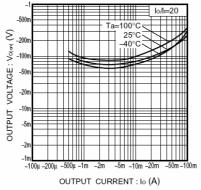


Fig.4 Output voltage vs. output current

Revision: B 2 of 3 2013/01/01



#### **Micro Commercial Components**

## **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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