

**Micro Commercial Components** 



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## DTA114EUA

## **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

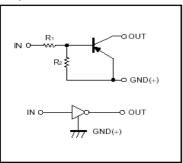
device design easy • Halogen free available upon request by adding suffix "-HF" **Absolute maximum ratings** @ 25°C

Symbol	Parameter	Min	Тур	Max	Unit
$V_{CC}$	Supply voltage		-50		V
V <sub>IN</sub>	Input voltage	-40		10	V
I <sub>O</sub> I <sub>C(MAX)</sub>	Output current		-50 -100		mA
$P_d$	Power dissipation		200		mW
$T_j$	Junction temperature		150		$^{\circ}$
T <sub>stq</sub>	Storage temperature	-55		150	$^{\circ}$ C

#### **Electrical Characteristics @ 25℃**

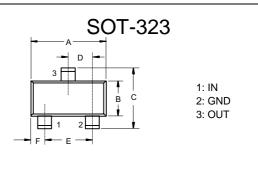
Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V <sub>CC</sub> =-5V, I <sub>O</sub> =-100 μ A)		1	-0.5	V
$V_{I(on)}$	$(V_0=-0.3V, I_0=-10mA)$	-3.0			V
$V_{O(on)}$	Output voltage (I <sub>O</sub> /I <sub>I</sub> =-10mA/-0.5mA		-	-0.3	V
l <sub>l</sub>	Input current (V <sub>I</sub> =-5V)		-	-0.88	mA
$I_{O(off)}$	Output current (V <sub>CC</sub> =-50V, V <sub>I</sub> =0)			-0.5	μА
Gı	DC current gain (V <sub>0</sub> =-5V, I <sub>0</sub> =-5mA)	30			
R <sub>1</sub>	Input resistance	7.0	10	13	ΚΩ
R <sub>2</sub> /R <sub>1</sub>	Resistance ratio	0.8	1.0	1.2	
f⊤	Transition frequency (V <sub>CE</sub> =-10V, I <sub>E</sub> =5mA, f=100MHz)		250		MHz

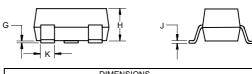
#### Equivalent circuit



**MARKING: 14** 

# **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		
C	.083	.096	2.10	2.45		
D	.026 No	ominal	0.65Nominal			
ш	.047	.055	1.20	1.40		
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Ι	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	.006	.016	.15	.40		

## Suggested Solder Pad Layout 0.70 0.90 1.90 mm 0.65 0.65



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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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