

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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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DTC124EUA

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"

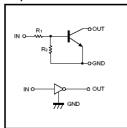
Absolute maximum ratings @ 25%

Symbol	Parameter	Min	Тур	Max	Unit
V_{CC}	Supply voltage		50		V
V _{IN}	Input voltage	-10		40	V
I _O I _{C(MAX)}	Output current		30 100		mA
P_d	Power dissipation		200		mW
T _j	Junction temperature		150		$^{\circ}$
T _{stg}	Storage temperature	-55		150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°℃

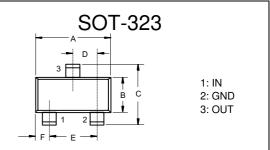
Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =5V, I _C =100 μ A)			0.5	V
$V_{I(on)}$	$(V_0=0.2V, I_0=5mA)$				V
$V_{O(on)}$	Output voltage (I _O /I _I =10mA/0.5mA)		0.1	0.3	V
I_1	Input current (V _I =5V)			0.36	mA
I _{O(off)}	Output current (V _{CC} =50V, V _I =0)			0.5	μ А
Gı	DC current gain (V ₀ =5V, I ₀ =5mA)	56			
R ₁	Input resistance	15.4	22	28.6	ΚΩ
R_2/R_1	Resistance ratio	0.8	1.0	1.2	
f _T	f_T Transition frequency $(V_{CE}=10V, I_E=5mA, f=100MHz)$		250		MHz

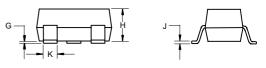
■Equivalent circuit



*Marking: 25

NPN Digital Transistors





DIMENSIONS					
	INC	INCHES		MM	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.071	.087	1.80	2.20	
В	.045	.053	1.15	1.35	
O	.079	.087	2.00	2.20	
D	.026 N	ominal	0.65Nominal		
Е	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
Ð	.000	.004	.000	.100	
Н	.035	.039	.90	1.00	
٦	.004	.010	.100	.250	
Κ	.012	.016	.30	.40	

Suggested Solder Pad Layout 0.70 1.90 mm 0.65 0.65



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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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