Excellent Integrated System Limited

Stocking Distributor

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Micro Commercial Components (MCC)
DTC124EUA-TP

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



Datasheet of DTC124EUA-TP - TRANS PREBIAS NPN 200MW SOT323 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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

device design easy
 Halogen free available upon request by adding suffix "-HF"

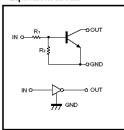
Absolute maximum ratings @ 25°

112001010	<u> </u>				
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
Tj	Junction temperature		150		$^{\circ}$
T _{stq}	Storage temperature	-55		150	$^{\circ}$

Electrical Characteristics @ 25 $^{\circ}$ C

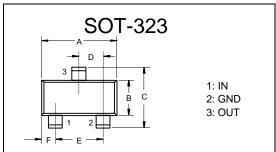
Symbol	Parameter		Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =5V, I _O =100 µ A)	0.5			V
$V_{I(on)}$	(V ₀ =0.2V, I ₀ =5mA)			3.0	V
$V_{O(on)}$	Output voltage (I _O /I _I =10mA/0.5mA)		0.1	0.3	V
I ₁	Input current (V _I =5V)			0.36	mA
I _{O(off)}	Output current (V _{CC} =50V, V _I =0)			0.5	μА
Gı	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⊤	Transition frequency $(V_{CE}=10V, I_{E}=5mA, f=100MHz)$		250		MHz

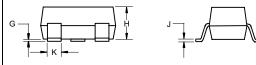
●Equivalent circuit



*Marking: 25

NPN 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	.026 Nominal		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		

Suggested Solder Pad Layout 0.70 0.90 1.90 mm

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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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