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Stocking Distributor

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Micro Commercial Components (MCC)
DTC144EUA-TP

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



Datasheet of DTC144EUA-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

Phone: (818) 701-4933 Fax: (818) 701-4939

DTC144EUA

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"

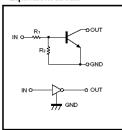
Absolute maximum ratings @ 25° C

Symbol	Parameter	Min	Тур	Max	Unit
V _{cc}	Supply voltage		50		V
V_{IN}	Input voltage	-10		40	V
lο	Output current		100		mA
P_d	Power dissipation		200		mW
T_j	Junction temperature		150		$^{\circ}\mathbb{C}$
T _{stg}	Storage temperature	-55		150	$^{\circ}$ C

Electrical Characteristics @ 25°C

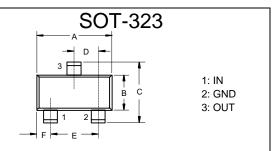
Symbol	Parameter		Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{cc} =5V, I _c =100 μ A)				V
$V_{I(on)}$	(V ₀ =0.3V, I ₀ =2mA)			3.0	V
$V_{O(on)}$	Output voltage (I _O /I _I =10mA/0.5mA)			0.3	V
I_{\parallel}	Input current (V _I =5V)			0.18	mA
I _{O(off)}	Output current (V _{CC} =50V, V _I =0)			0.5	μA
Gı	DC current gain (V ₀ =5V, I ₀ =5mA)	68			
R ₁	Input resistance	32.9	47	61.1	KΩ
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

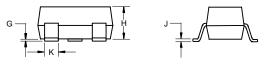
●Equivalent circuit



*Marking: 26

NPN Digital Transistors





DIMENSIONS						
	INCHES		ММ			
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 N	ominal	0.65Nominal			
Е	.047	.055	1.20	1.40		
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Η	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	.006	.016	.15	.40		

Suggested Solder Pad Layout 0.70 1.90 mm 0.65 0.65

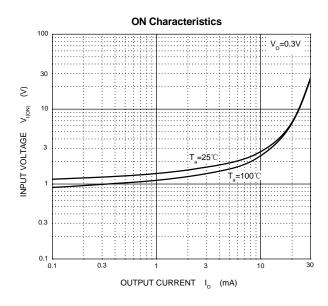
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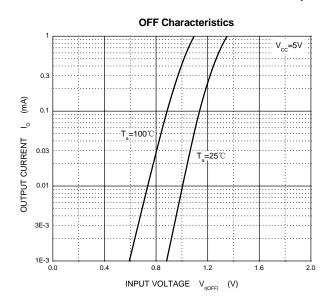
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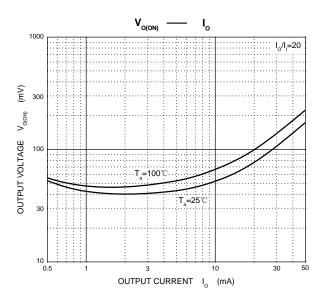
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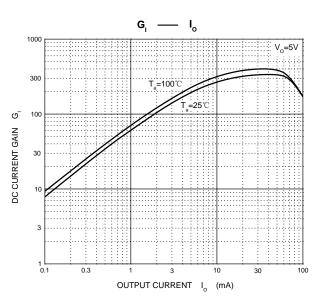
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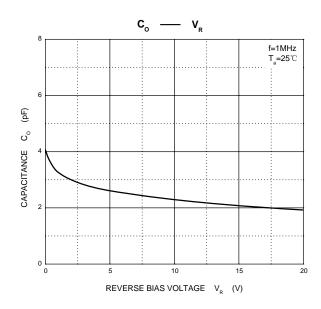


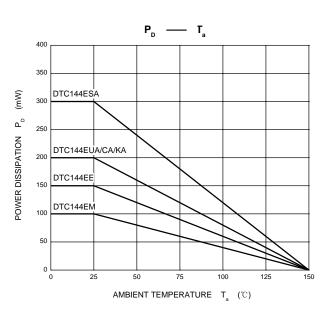












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Ordering Information:

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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