Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC)
DTA114ECA-TP

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



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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DTA114ECA

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"

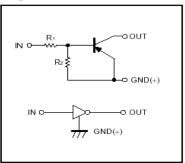
Absolute maximum ratings @ 25° C

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

Electrical Characteristics @ 25℃

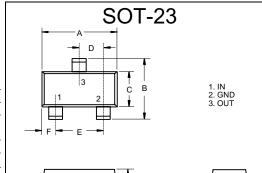
Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =-5V, I _O =-100 μ A)			-0.5	V
$V_{I(on)}$	$(V_0=-0.3V, I_0=-10mA)$	-3.0			V
$V_{O(on)}$	Output voltage (I _O /I _I =-10mA/-0.5mA			-0.3	V
I_{l}	Input current (V _I =-5V)			-0.88	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)			-0.5	μА
Gı	DC current gain (V ₀ =-5V, I ₀ =-5mA)	30			
R ₁	Input resistance	7.0	10	13	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

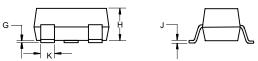
Equivalent circuit



MARKING: 14

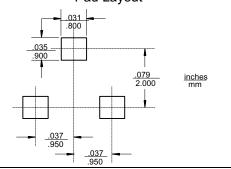
PNP Digital Transistors





DIMENSIONS						
	INCHES		М			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.110	.120	2.80	3.04		
В	.083	.104	2.10	2.64		
С	.047	.055	1.20	1.40		
D	.035	.041	.89	1.03		
Е	.070	.081	1.78	2.05		
F	.018	.024	.45	.60		
G	.0005	.0039	.013	.100		
Н	.035	.044	.89	1.12		
J	.003	.007	.085	.180		
K	.015	.020	.37	.51		

Suggested Solder Pad Layout



Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

Datasheet of DTA114ECA-TP - TRANS PREBIAS PNP 200MW SOT23

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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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