

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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DTA143XUA

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"

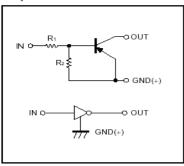
Absolute maximum ratings @ 25° C

Symbol	Parameter	Min	Тур	Max	Unit
V_{CC}	Supply voltage		-50		V
V_{IN}	Input voltage	-20		7	V
Io	Output current		-100		mA
P_d	Power dissipation		200		mW
T _j	Junction temperature		150		$^{\circ}$
T _{stg}	Storage temperature	-55		150	$^{\circ}$

Electrical Characteristics @ 25 $^{\circ}$

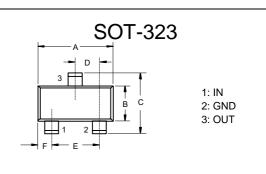
Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =-5V, I _O =-100 μ A)	-0.3	-		V
$V_{I(on)}$	$(V_0=-0.3V, I_0=-20mA)$			-2.5	V
$V_{O(on)}$	Output voltage (I _O /I _I =-10mA/-0.5mA		-0.1	-0.3	V
l _l	Input current (V _I =-5V)			-1.8	mA
$I_{O(off)}$	Output current (V _{CC} =-50V, V _I =0)			-0.5	μА
Gı	DC current gain (V _O =-5V, I _O =-10mA)	30			
R ₁	Input resistance	3.29	4.7	6.11	$\mathbf{K} \Omega$
R ₂ /R ₁	Resistance ratio	1.7	2.1	2.6	
f⊤	Transition frequency (V _O =-10V, I _O =-5mA, f=100MHz)		250		MHz

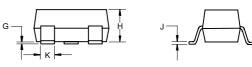
Equivalent circuit



*Marking: 33

PNP Digital Transistors



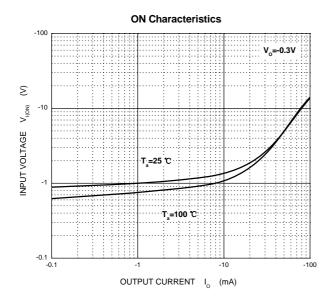


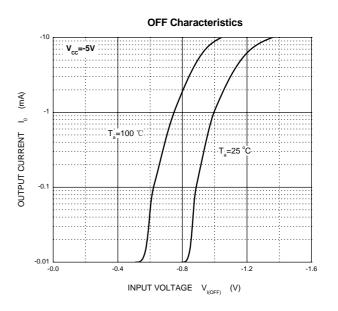
DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.071	.087	1.80	2.20		
В	.045	.053	1.15	1.35		
С	.083	.096	2.10	2.45		
D	.026 Nominal		0.65Nominal			
E	.047	.055	1.20	1.40		
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Н	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	.006	.016	.15	.40		

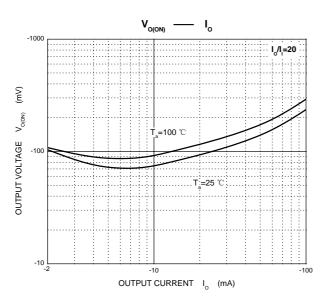
Suggested Solder Pad Layout 0.70 0.90 1.90 mm 0.65

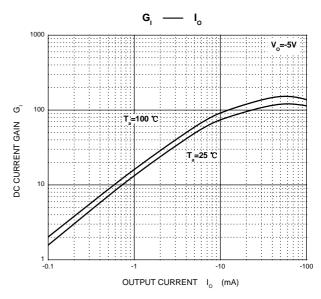


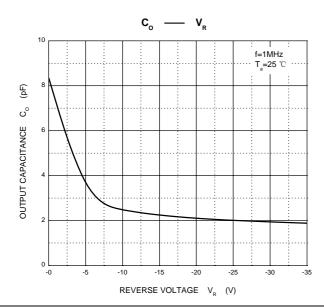


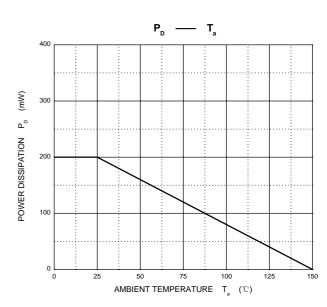














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Ordering Information:

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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