

Micro Commercial Components

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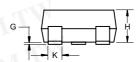
DTA123JE

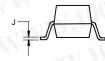
PNP

Digital Transistors

SOT-523







	-41	DIMEN	SIONS	-11	A 4 .	
N T	INC	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.059	.067	1.50	1.70		
В	.030	.033	0.75	0.85		
C	.057	.069	1.45	1.75	-41	
D	.020 N	.020 Nominal		0.50Nominal		
E	.035	.043	0.90	1.10	4	
G	.000	.004	.000	.100		
Н	.028	.031	.70	0.80	_ 1	
J	.004	.008	.100	.200		

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

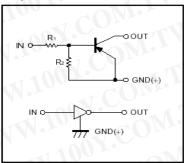
Absolute maximum ratings @ 25° C

Symbol	Parameter	Min	Тур	Max	Unit
V_{cc}	Supply voltage		-50	(7-7.7	V
V_{IN}	Input voltage	-12	VC	5	V
I _O I _{C(MAX)}	Output current	777	-100 -100	~	mA
P_d	Power dissipation		150		mW
-T _i	Junction temperature	140	150		$^{\circ}\mathbb{C}$
T _{stq}	Storage temperature	-55		150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°C

Symbol	Parameter	Min	Тур	Max	Unit
$V_{l(off)}$	Input voltage (V _{CC} =-5V, I _O =-100 μ A)			-0.5	V
$V_{I(on)}$	(V _o =-0.3V, I _o =-5mA)	-1.1			V
V _{O(on)}	Output voltage (I _O /I _I =-5mA/-0.25mA	17		-0.3	V
l _l	Input current (V _I =-5V)		1	-3.6	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)		17	-0.5	μА
Gı	DC current gain (V _O =-5V, I _O =-10mA)	80			
R ₁	Input resistance	1.54	2.2	2.86	ΚΩ
R ₂ /R ₁	Resistance ratio	17	21	26	4 7
f _T	Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz)		250	V 40	MHz

Equivalent circuit



*Marking: E32

DTA123JE



•Electrical characteristic curves

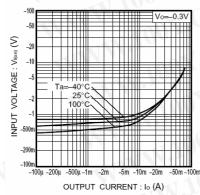


Fig.1 Input voltage vs. output current (ON characteristics)

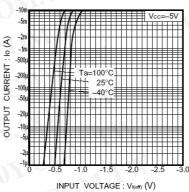


Fig.2 Output current vs. input voltage (OFF characteristics)

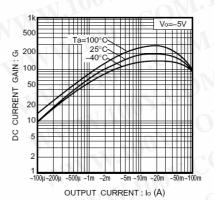


Fig.3 DC current gain vs. output current

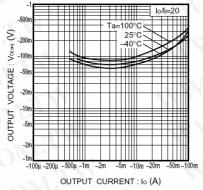


Fig.4 Output voltage vs. output current

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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

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