

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

DTA123JCA

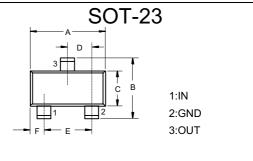
Features

- Epitaxial Planar Die Construction
- Complementary NPN Types Available
- Built-In Biasing Resistors
- 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

Absolute maximum ratings @ 25° C

Symbol	Parameter	Min	Тур	Max	Unit
Vcc	Supply voltage		50		V
VIN	Input voltage	-5		+12	V
Pd	Power dissipation		200		mW
Tj	Junction temperature		150		°C
T _{stg}	Storage temperature	-55		150	°C
I _o	Output current		100		mA
I _{C(MAX)}			100		

Digital Transistors



MM

MAX

3.04

2.64

1.40

1.03

2.05

.60

NOTE

MIN

2.80

2.10

1.20

.89

1.78

.45

INCHES

MAX

.120

.098

.055

.041

.081

.024

MIN

.110

.083

.047

.035

.070

018

DIM

Α

В

D

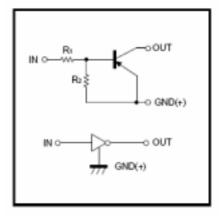
Е

F

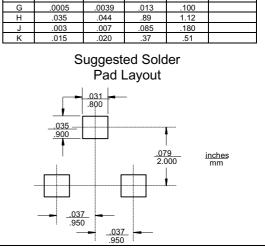
Electrical Characteristics @ $25^{\circ}C$

Symbol	Parameter	Min	Тур	Max	Unit
V _{I(off)}	Input voltage (V _{cc} =5V, I_0 =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 =5mA,I _i =0.25mA)		0.1	0.3	V
I _I	Input current (V _I =5V)			3.6	mA
I _{O(off)}	Output current (V _{cc} =50V, V _I =0)			0.5	μΑ
Gı	DC current gain (V ₀ =5V, I ₀ =10mA)	80			
R ₁	Input resistance	1.54	2.2	2.86	ΚΩ
R_2/R_1	Resistance ratio	17	21	26	
f _T	Transition frequency (V _{CE} =10V, I _E =5mA, f=100MHz)		250		MHz

Equivalent circuit



*Marking: E32

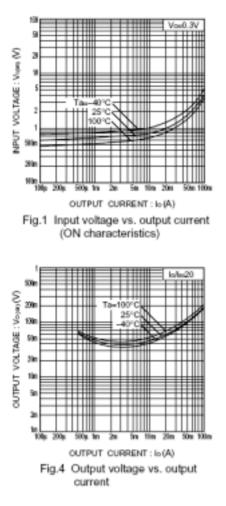


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Revision: A

DTA123JCA





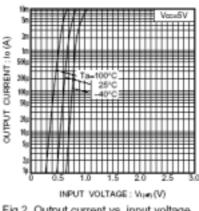
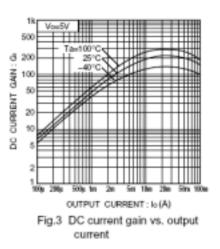


Fig.2 Output current vs. input voltage (OFF characteristics)



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Ordering Information :

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

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