

Micro Commercial Components

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DTA123JCA

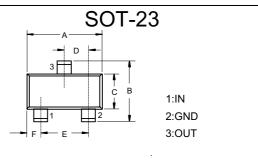
Digital Transistors

Features

- # Epitaxial Planar Die Construction
- # Complementary NPN Types Available
- ∉# Built-In Biasing Resistors
- ∉ Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Absolute maximum ratings @ 25

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



MM

MAX

3.04

2.64

1.40

1.03

2.05

.60 .100 1.12

MIN

2.80

2.10

1.20

.89

1.78

.45

.013

.89

NOTE

INCHES

MAX

.120

.098

.055

.041

.081

.024

.0039

.044

MIN

.110

.083

.047

.035

.070

018

.0005

.035

DIM

A B

C D

Ε

F

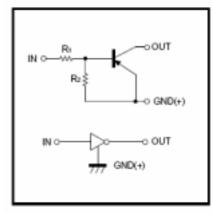
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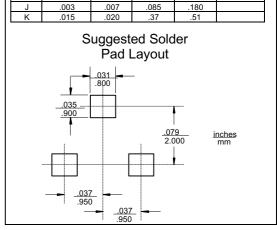
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Electrical Characteristics @ 25

Symbol	Parameter	Min	Тур	Max	Unit
V _{I(off)}	Input voltage (V _{cc} =5V, I _o =100Ç A)			0.5	V
V _{I(on)}	(V _o =0.3V, I _o =5mA)	1.1			V
V _{O(on)}	Output voltage (I ₀ =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	ÇΑ
Gı	DC current gain (V ₀ =5V, I ₀ =10mA)	80			
R₁	Input resistance	1.54	2.2	2.86	K»
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

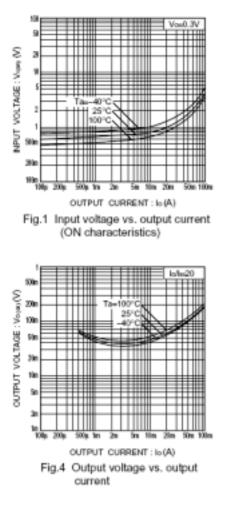


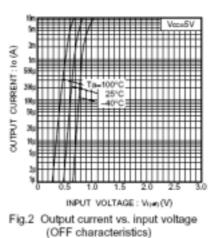


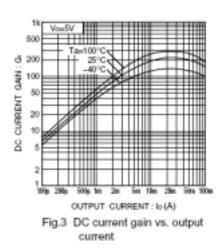
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