

Micro Commercial Components



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

Features

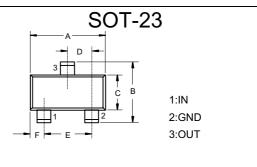
- Halogen free available upon request by adding suffix "-HF"
- Epitaxial Planar Die Construction
- Complementary NPN Types Available
- Built-In Biasing Resistors
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Absolute maximum ratings @ $25^{\circ}_{ m C}$

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

DTA123JCA

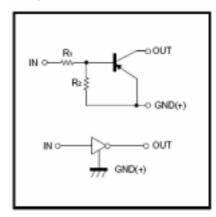
Digital Transistors



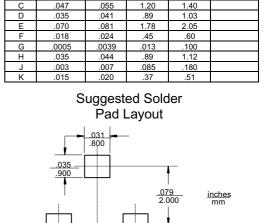
Electrical Characteristics @ 25 $^{\circ}\mathrm{C}$

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	μA
Gı	DC current gain (V ₀ =5V, I ₀ =10mA)	80			
R ₁	Input resistance	1.54	2.2	2.86	KΩ
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



MIN

2.80

2.10

MAX

3.04

2.64

NOTE

INCHES

<u>.037</u> .950

> <u>.037</u> .950

MAX

.120

.104

MIN

.110

.083

DIM

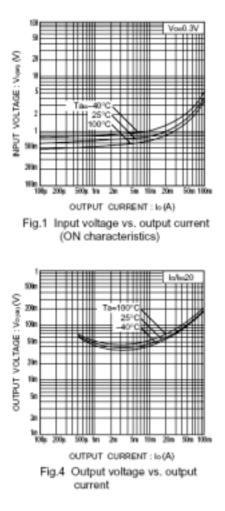
Α

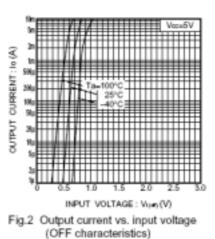
В

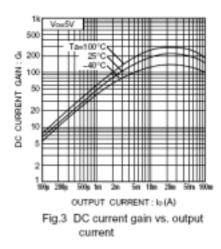


DTA123JCA









www.mccsemi.com

Downloaded from: http://www.datasheetcatalog.com/



Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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