

Micro Commercial Components

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

our

∀ GND

SCHEMATIC DIAGRAM

DTC123JKA

Digital Transistors

Features

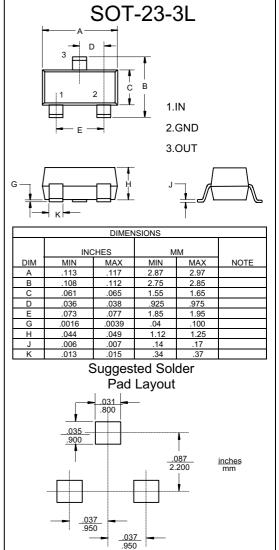
- Epitaxial Planar Die Construction
- Complementary NPN Types Available
- Built-In Biasing Resistors
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking: E42

Absolute maximum ratings @ 25° C

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		°C
T _{stg}	Storage temperature	-55		150	°C
l _o	Output current		100		mA
I _{C(MAX)}			100		

Electrical Characteristics @ 25°C

Symbol	Parameter	Min	Тур	Max	Unit
V _{I(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 ₀ =5mA,I _i =0.25mA)		0.1	0.3	V
I ₁	Input current (V _I =5V)			3.6	mA
I _{O(off)}	Output current (V _{CC} =50V, V _I =0)			0.5	μ Α
Gı	DC current gain (V _o =5V, I _o =10mA)	80			
R1	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

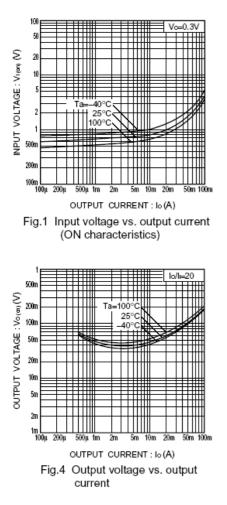


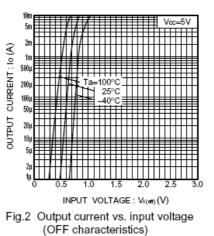
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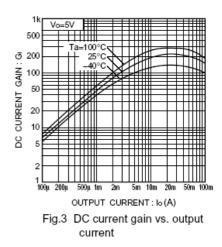
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