

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components

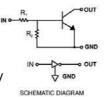
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

DTC123JKA

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



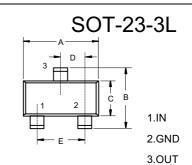
Absolute maximum ratings @ 25°

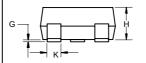
Symbol	Parameter	Min	Тур	Max	Unit
Vcc	Supply voltage		50		V
V _{IN}	Input voltage	-5		+12	V
P _d	Power dissipation		200		mW
Tj	Junction temperature		150		$^{\circ}\mathbb{C}$
T _{stg}	Storage temperature	-55		150	$^{\circ}\!\mathbb{C}$
Ιο	Output current		100		mA
I _{C(MAX)}	Output current		100		IIIA

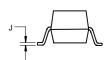
Electrical Characteristics @ 25°C

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 ₀ =0.3V, I ₀ =5mA)				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	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	
f _T	Transition frequency (V _{CE} =10V, I _E =5mA, f=100MHz)		250		MHz

Digital Transistors

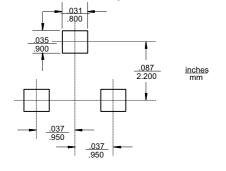






DIMENSIONS								
	INC	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	.113	.117	2.87	2.97				
В	.108	.112	2.75	2.85				
O	.061	.065	1.55	1.65				
D	.036	.038	.925	.975				
Е	.073	.077	1.85	1.95				
Ð	.0016	.0039	.04	.100				
Н	.044	.049	1.12	1.25				
٦	.006	.007	.14	.17				
K	013	015	34	37				

Suggested Solder Pad Layout



DTC123JKA



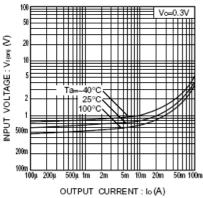


Fig.1 Input voltage vs. output current (ON characteristics)

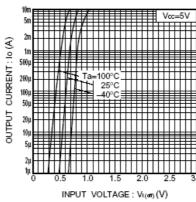


Fig.2 Output current vs. input voltage (OFF characteristics)

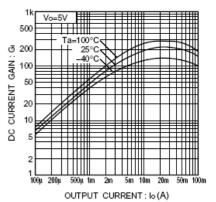


Fig.3 DC current gain vs. output current

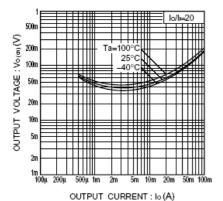


Fig.4 Output voltage vs. output current



Micro Commercial Components

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