

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 DTC123JUA

Features

- Halogen free available upon request by adding suffix "-HF"
- Epitaxial Planar Die Construction
- Complementary NPN Types Available
- Built-in Bias 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

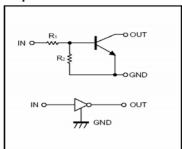
Absolute maximum ratings @ 25_{\odot}

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

Electrical Characteristics @ 25 $_{\odot}$

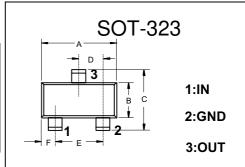
Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =5V, I _O =100 ₁₁ A)			0.5	V
$V_{I(on)}$	(V _o =0.3V, I _o =5mA)				V
$V_{O(on)}$	Output voltage (I _O =5mA,I _i =0.25mA)		0.1	0.3	V
I_1	Input current (V _i =5V)			3.6	mA
$I_{O(off)}$	Output current (V _{CC} =50V, V _I =0)			0.5	μA
Gı	DC current gain (V ₀ =5V, I ₀ =10mA)	80			
R ₁	Input resistance	1.54	2.2	2.86	K_{Ω}
R_2/R_1	Resistance ratio	17	21	26	
f⊤	Transition frequency $(V_{CE}=10V, I_{E}=5mA, f=100MHz)$		250		MHz

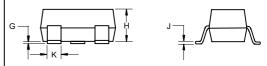
Equivalent circuit



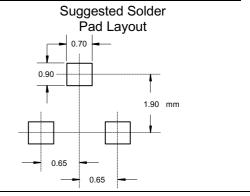
*Marking: E42

Digital Transistors





DIMENSIONS						
	INCHES		М			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.071	.087	1.80	2.20		
В	.045	.053	1.15	1.35		
С	.079	.087	2.00	2.20		
D	.026 Nominal		0.65Nominal			
Е	.047	.055	1.20	1.40		
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Н	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	.012	.016	.30	.40		



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DTC123JUA



Typical Characteristics

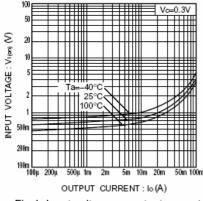


Fig.1 Input voltage vs. output current (ON characteristics)

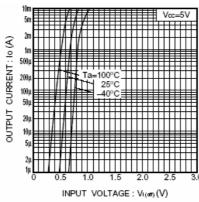


Fig.2 Output current vs. input voltage (OFF characteristics)

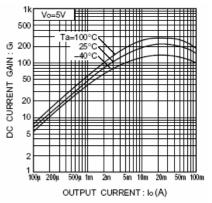


Fig.3 DC current gain vs. output current

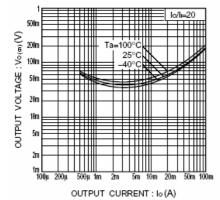


Fig.4 Output voltage vs. output current



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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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