

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

Pb

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UMH11N

Features

- Halogen free available upon request by adding suffix "-HF"
- Two DTC114E Chips in SOT-363 Package.
- Transistor elements are independent, eliminating interference
- Design For Saving Space and Cost.
- 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 ℃

Symbol	Parameter	Value	Unit
V_{CC}	Supply voltage	50	V
V_{IN}	Input voltage	-10~40	V
Ιο	Output current	50	mA
I _{C(MAX)}	Collector Current	100	mA
P _d	Power dissipation	150(Total)	mW
Tj	Junction temperature	150	$^{\circ}$ C
T _{sta}	Storage temperature	-55~150	$^{\circ}$

Electrical Characteristics @ 25 ℃

Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =5V, I _O =100µA)			0.5	V
$V_{I(on)}$	$(V_0=0.3V, I_0=10mA)$	3.0			V
$V_{O(on)}$	Output voltage (I _O /I _I =10mA/0.5mA)			0.3	V
I _I	Input current (V _I =5V)			0.88	mA
I _{O(off)}	Output current (V _{CC} =50V, V _I =0)			0.5	μA
Gı	DC current gain (V ₀ =5V, I ₀ =5mA)	30			
R ₁	Input resistance	7	10	13	ΚΩ
R ₂ /R ₁	Resistance ratio	0.8	1.0	1.2	
f⊤	Transition frequency $(V_{CE}=10V, I_{E}=-5mA, f=100MHz)$		250		MHz

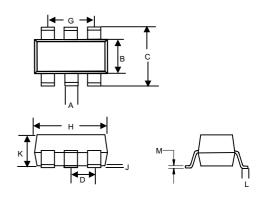
Equivalent circuit



Marking:H11

Digital Transistors

SOT-363



	DIMENSIONS						
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.006	.014	0.15	0.35			
В	.045	.053	1.15	1.35			
С	.085	.096	2.15	2.45			
D	.026		0.65Nominal				
G	.047	.055	1.20	1.40			
Н	.071	.087	1.80	2.20			
J		.004		0.10			
K	.035	.043	0.90	1.10			
L	.010	.018	0.26	0.46			
M	.003	.006	0.08	0.15			



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Electrical characteristic curves

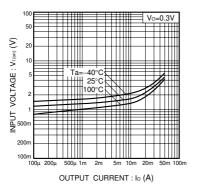


Fig.1 Input voltage vs. output current (ON characteristics)

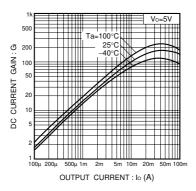


Fig.3 DC current gain vs. output current

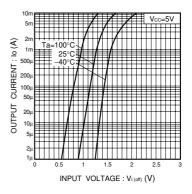


Fig.2 Output current vs. input voltage (OFF characteristics)

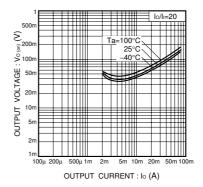


Fig.4 Output voltage vs. output current



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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