



Micro Commercial Components

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UMH11N

Features

- Two DTC114E Chips in SOT-363 Package.
- Transistor elements are independent, eliminating interference
- Design For Saving Space and Cost.
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 .

Digital Transistors

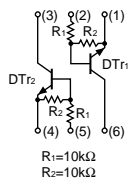
Absolute maximum ratings @ 25 °C

Symbol	Parameter	Value	Unit
V _{CC}	Supply voltage	50	V
V _{IN}	Input voltage	-10~40	V
I _O	Output current	50	mA
I _{C(MAX)}	Collector Current	100	mA
P _d	Power dissipation	150(Total)	mW
T _j	Junction temperature	150	°C
T _{stg}	Storage temperature	-55~150	°C

Electrical Characteristics @ 25 °C

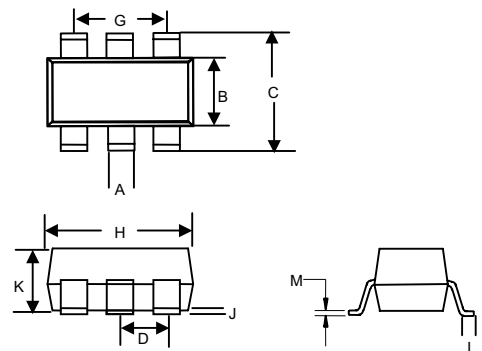
Symbol	Parameter	Min	Typ	Max	Unit
V _{I(off)}	Input voltage (V _{CC} =5V, I _O =100μA)	---	---	0.5	V
V _{I(on)}	Input voltage (V _O =0.3V, I _O =10mA)	3.0	---	---	V
V _{O(on)}	Output voltage (I _O /I _I =10mA/0.5mA)	---	---	0.3	V
I _I	Input current (V _I =5V)	---	---	0.88	mA
I _{O(off)}	Output current (V _{CC} =50V, V _I =0)	---	---	0.5	μA
G _I	DC current gain (V _O =5V, I _O =5mA)	30	---	---	
R ₁	Input resistance	7	10	13	KΩ
R ₂ /R ₁	Resistance ratio	0.8	1.0	1.2	
f _T	Transition frequency (V _{CE} =10V, I _E =-5mA, f=100MHz)	---	250	---	MHz

Equivalent circuit



Marking :H11

SOT-363



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.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

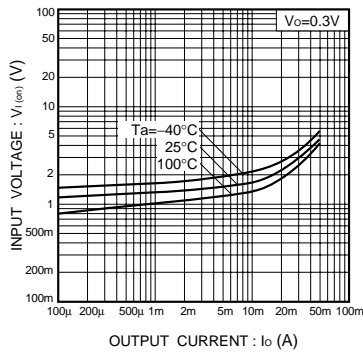


Fig.1 Input voltage vs. output current (ON characteristics)

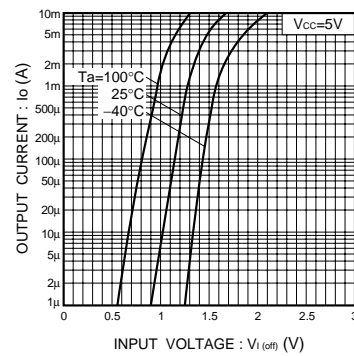


Fig.2 Output current vs. input voltage (OFF characteristics)

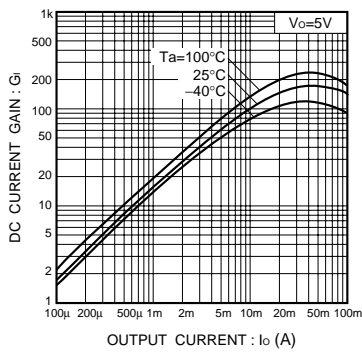


Fig.3 DC current gain vs. output current

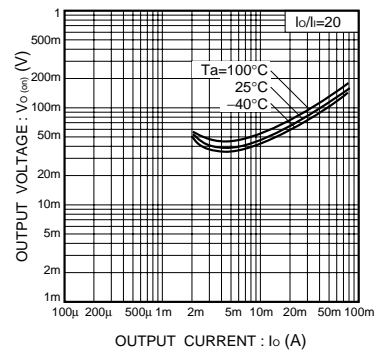


Fig.4 Output voltage vs. output current



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