



Micro Commercial Components



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UMH11N

Digital Transistors

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
- Moisture Sensitivity Level 1

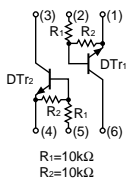
Absolute maximum ratings @ 25 °C

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

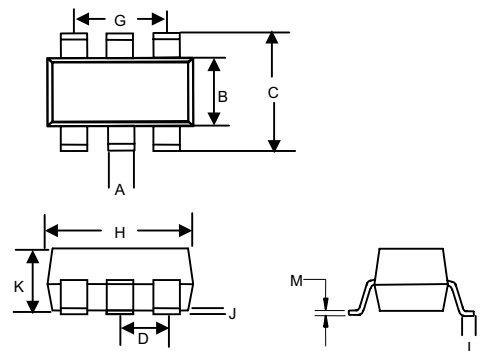
Symbol	Parameter	Min	Typ	Max	Unit
V _{I(off)}	Input voltage (V _{CC} =5V, I _O =100µA) (V _O =0.3V, I _O =10mA)	---	---	0.5	V
V _{I(on)}		3.0	---	---	V
V _{O(on)}	Output voltage (I _O /I _I =10mA/0.5mA)	---	---	0.3	V
I _I	Input current (V _I =5V)	---	---	0.88	mA
I _{O(off)}	Output current (V _{CC} =50V, 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	INCHES		MM		NOTE
	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

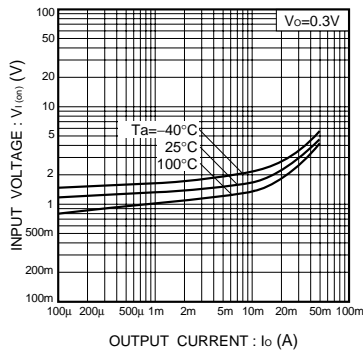


Fig.1 Input voltage vs. output current (ON characteristics)

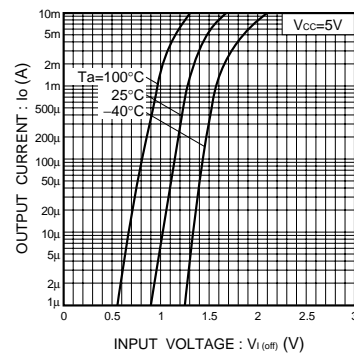


Fig.2 Output current vs. input voltage (OFF characteristics)

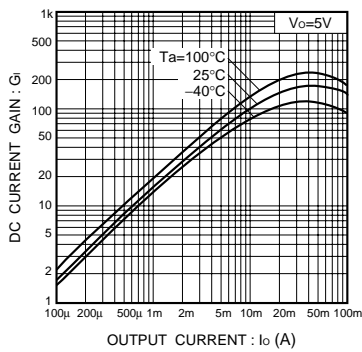


Fig.3 DC current gain vs. output current

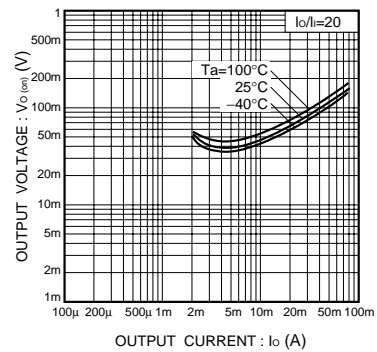


Fig.4 Output voltage vs. output current



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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