



Micro Commercial Components



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UMH1N

Digital Transistors

Features

- Halogen free available upon request by adding suffix "-HF"
- Two DTC124E chip in a package
- Mounting possible with SOT-363 automatic mounting machines.
- Transistor elements are independent, eliminating interference.
- 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

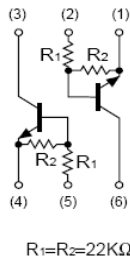
Absolute maximum ratings @ 25 °C

Symbol	Parameter	Value	Unit
V _{CC}	Supply voltage	50	V
V _{IN}	Input voltage	-10~40	V
I _O	Output current	30	mA
I _{C(MAX)}	Collector Current	100	mA
P _d	Power dissipation	150	mW
T _j	Junction temperature	150	°C
T _{stg}	Storage temperature	-55~150	°C

Electrical Characteristics @ 25 °C

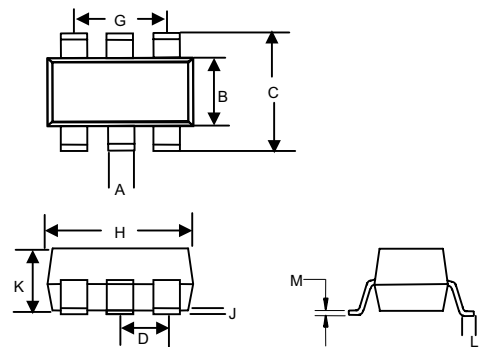
Symbol	Parameter	Min	Typ	Max	Unit
V _{I(off)}	Input voltage (V _{CC} =5V, I _O =100μA)	---	---	0.5	V
V _{I(on)}	Input voltage (V _O =0.2V, I _O =5mA)	3.0	---	---	V
V _{O(on)}	Output voltage (I _O /I _I =10mA/0.5mA)	---	0.1	0.3	V
I _I	Input current (V _I =5V)	---	---	0.36	mA
I _{O(off)}	Output current (V _{CC} =50V, V _I =0)	---	---	0.5	μA
G _I	DC current gain (V _O =5V, I _O =5mA)	56	---	---	
R ₁	Input resistance	15.4	22	28.6	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 :H1

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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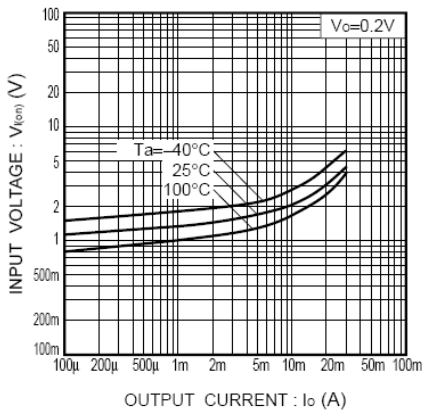


Fig.1 Input voltage vs. output current (ON characteristics)

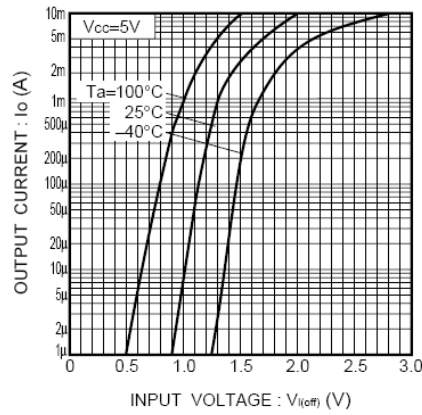


Fig.2 Output current vs. input voltage (OFF characteristics)

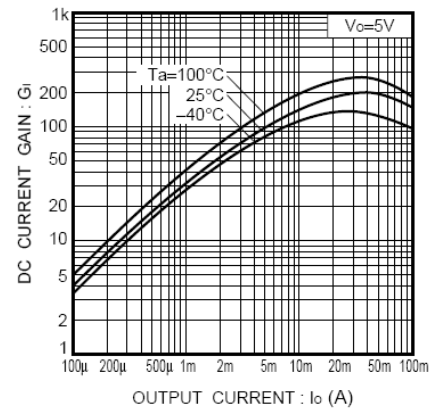


Fig.3 DC current gain vs. output current

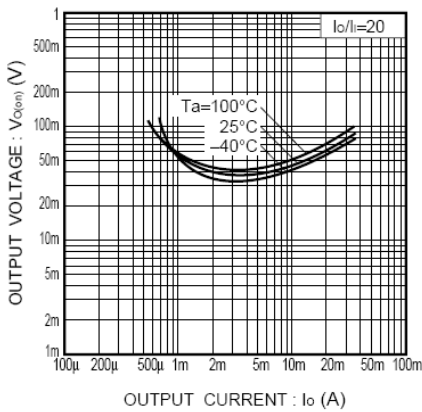


Fig.4 Output voltage vs. output current



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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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