



Micro Commercial Components

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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 $^{\circ}$

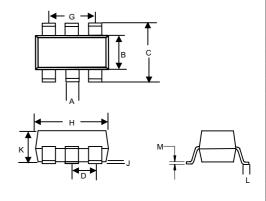
Symbol	Parameter	Value	Unit
V_{cc}	Supply voltage	50	V
V_{IN}	Input voltage	-10~40	V
Ιο	Output current	50	mA
I _{C(MAX)}	Collector Current	100	mA
P_d	Power dissipation	150(Total)	mW
Tj	Junction temperature	150	°C
T_{stg}	Storage temperature	-55~150	°C

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

Digital Transistors





	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			

Equivalent circuit



Marking:H11



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Electrical characteristic curves

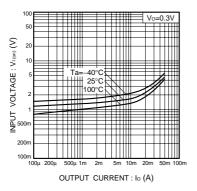


Fig.1 Input voltage vs. output current (ON characteristics)

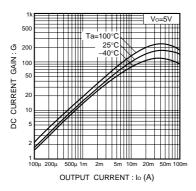


Fig.3 DC current gain vs. output current

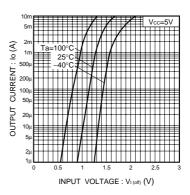


Fig.2 Output current vs. input voltage (OFF characteristics)

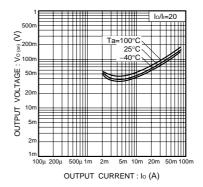


Fig.4 Output voltage vs. output current



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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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AMEYA360 Components Supply Platform

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