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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.
- 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 $^{\circ}$ C

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	$^{\circ}$
T _{stg}	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 _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_{l}	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			
R₁	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

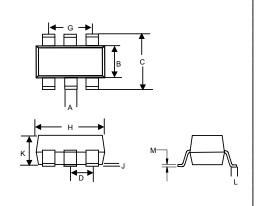
Equivalent circuit



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		
Ĺ	.010	.018	0.26	0.46		
М	.003	.006	0.08	0.15		



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Electrical characteristic curves

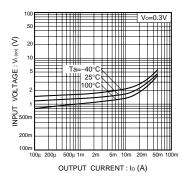


Fig.1 Input voltage vs. output current (ON characteristics)

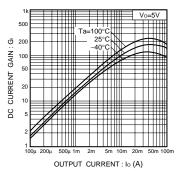


Fig.3 DC current gain vs. output current

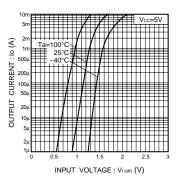


Fig.2 Output current vs. input voltage (OFF characteristics)

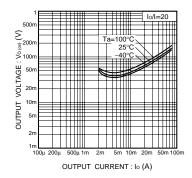


Fig.4 Output voltage vs. output current



Ordering Information:

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

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