



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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UMH2N

Features

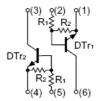
- Halogen free available upon request by adding suffix "-HF"
- Two DTC144E chips in one package
- Mounting possible with SOT-363 automatic mounting machines.
- Transistor elements are independent, eliminating interference.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Mechanical Data

Case: SOT-363, Molded Plastic
Polarity: See Diagram (NPN*2)

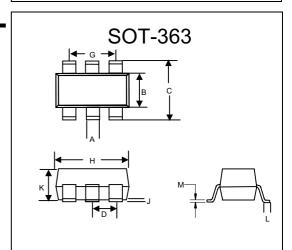
Maximum Ratings @ 25° Unless Otherwise Specified

Symbol	Parameter	Units			
OFF CHARACTERISTICS					
V _{cc}	Supply Voltage	50	V		
Vi	Input voltage	ut voltage -10 to +40			
I _{C(MAX)}	Output current	100	mA		
P _D	Power dissipation	150	mW		
TJ	Junction temperature 150 ℃				
T _{stg}	Storage temperature	temperature -55~+150 °C			



Marking: H2

Dual 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	

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Electrical Characteristics (T_a=25℃)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Input turn-on voltage	V _{i(on)}	V _{CC} =0.3V, I _O =2mA	3			V
Input cut-off voltage	$V_{i(off)}$	V _{CC} =5V, I _O =100μA			0.5	V
Output voltage	V _{O(on)}	I _O =10mA, I _i =0.5mA			0.3	V
Input cut-off current	li	V _i =5V			0.18	mA
Output cut-off current	I _{O(off)}	V _{CC} =50V, V _i =0			0.5	μΑ
DC current gain	Gi	V _O =5V, I _O =5mA	68			
Transition frequency	f _T	V _O =10V, I _O =5mA, f =100MHz		250		MHz
Input resistance	R ₁		32.9		61.1	ΚΩ
Resistance ratio	R ₂ /R ₁		0.8		1.2	

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Typical Characteristics

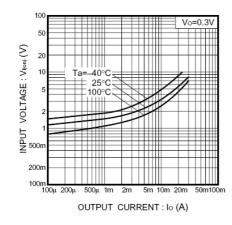


Fig.1 Input voltage vs. output current (ON characteristics)

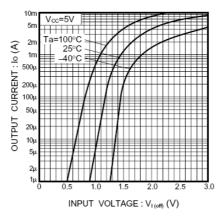


Fig.2 Output current vs. input voltage (OFF characteristics)

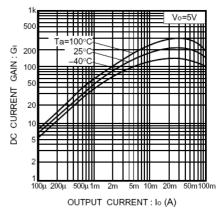


Fig.3 DC current gain vs. output current

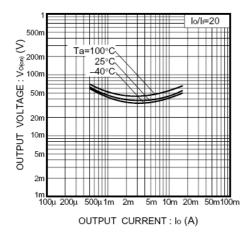


Fig.4 Output voltage vs. output current



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Ordering Information:

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

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