



Micro Commercial Components

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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
- Moisture Sensitivity Level 1

Dual Transistors

Mechanical Data

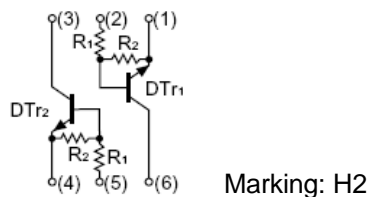
- Case: SOT-363, Molded Plastic
- Polarity: See Diagram (NPN*2)

Maximum Ratings @ 25°C Unless Otherwise Specified

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

SOT-363

DIMENSIONS					
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 Characteristics (T_a=25°C)

Parameter	Symbol	Test conditions	Min	Typ	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	I _i	V _i =5V			0.18	mA
Output cut-off current	I _{O(off)}	V _{CC} =50V, V _i =0			0.5	μA
DC current gain	G _i	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	KΩ
Resistance ratio	R ₂ /R ₁		0.8		1.2	

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Typical Characteristics

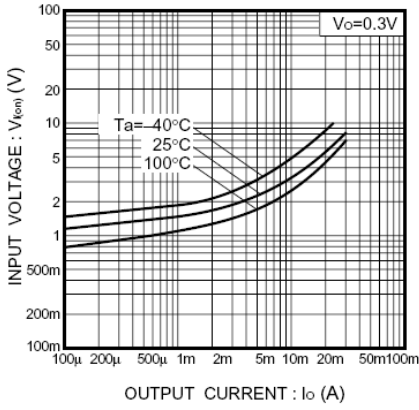


Fig.1 Input voltage vs. output current (ON characteristics)

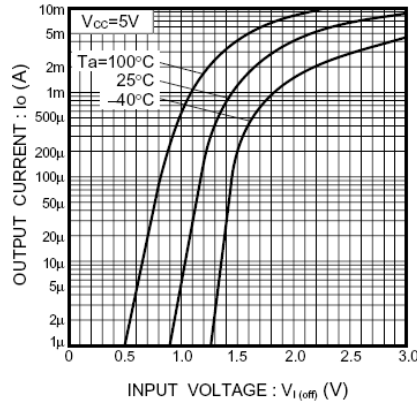


Fig.2 Output current vs. input voltage (OFF characteristics)

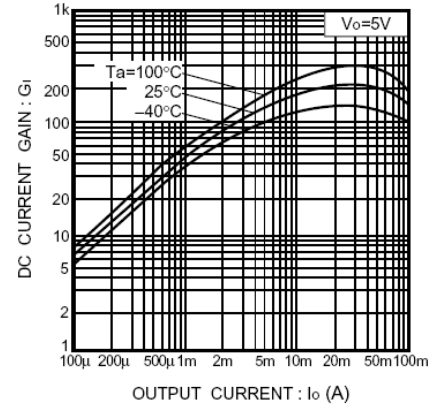


Fig.3 DC current gain vs. output current

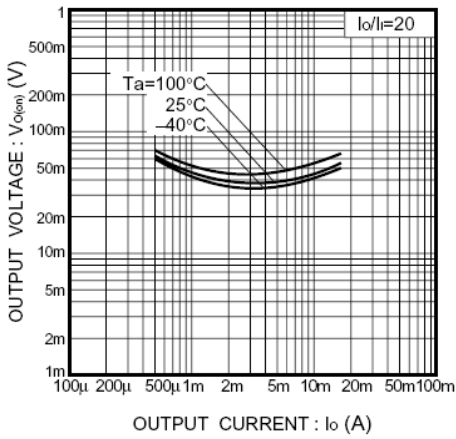


Fig.4 Output voltage vs. output current



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Ordering Information :

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

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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