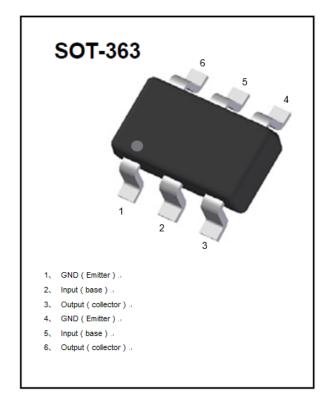
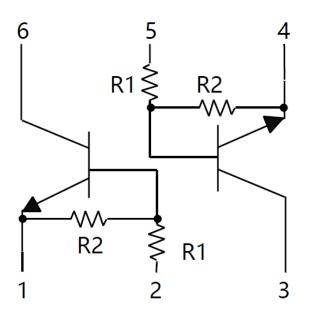
Dual NPN Digital Transistors (Built-in Resistors)



■Equivalent circuit



Features

- Epoxy meets UL-94 V-0 flammability rating
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- Surface mount package ideally Suited for Automatic Insertion

Mechanical Data

- Package: SOT-363
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking:H9

■Maximum Ratings (Ta=25°C Unless otherwise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	V _{cc}	V		50
Input Voltage	V _{IN}	V		-6 to +40
Output Current	lo	mA		100
Power Dissipation	P _D	mW		150
Junction Temperature (Single)	Tj	°C		150
Storage Temperature	T _{STG}	°C		-55 to +150

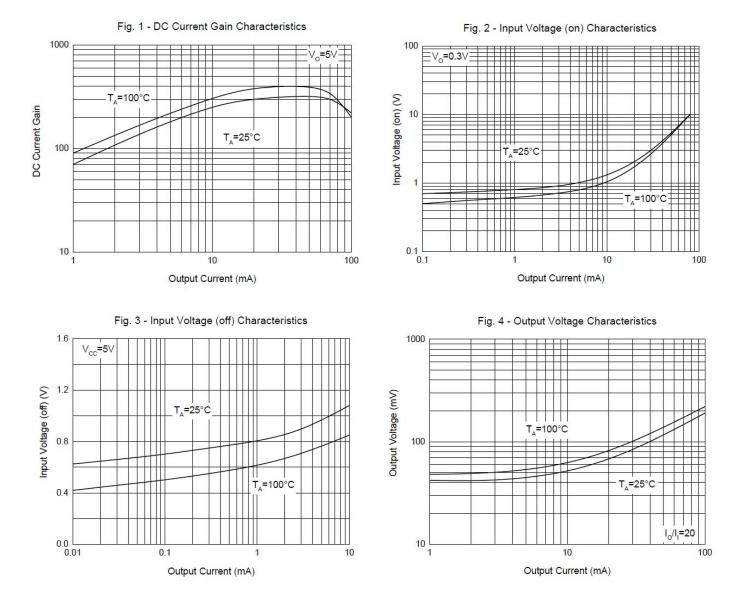
■Electrical Characteristics (Ta=25°C unless otherwise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	MIN	ТҮР	МАХ
Input voltage	VI _(off)	V	V _{cc} =5V,Ic=100uA	0.3	-	-
	VI _(on)	V	V _o =0.3V,Ic=10mA	-	-	1.4
Output voltage	Vo _(on)	V	lo /li =5mA/0.25 mA	-	-	0.3
Input current	I ₁	mA	V _I =5V	-	-	0.88
Output current	I _{O(off)}	uA	V _{cc} =50V, Vi=0	-	-	0.5
DC current gain	Gı		Vo=5V, lo =5mA	68	-	-
Input resistance	R ₁	kΩ		7	10	13
Resistance ratio	R ₂ /R ₁			3.7	4.7	5.7
Transition frequency	f _T	MHz	V _{CE} =10V,I _E =5mA,f=100MHz	-	250	-

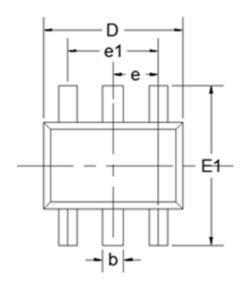
Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
UMH9N	F2	Approximate 0.009g	3000	30000	120000	7" reel

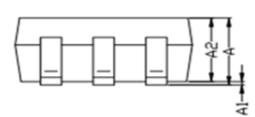
Characteristics (Typical)

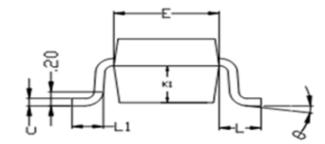


■SOT-363 Package Outline Dimensions

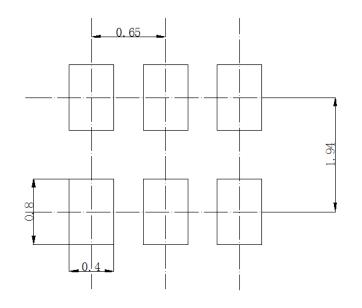


DIMENSIONS					
DIM	INC	HES	MM		
	MIN	MAX	MIN	MAX	
A	0.035	0.043	0.9	1.1	
A1	0	0.004	0	0.1	
A2	0.035	0.039	0.9	1	
ď	0.006	0.014	0.15	0.35	
c	0.002	0.01	0.05	0.25	
D	0.071	0.087	1.8	2.2	
E	0.045	0.053	1.15	1.35	
E1	0.085	0.096	2.15	2.45	
e	0. 02	6Тур	0.65Typ		
el	0.047	0.055	1.2	1.4	
L	0.02	1Typ	0.525Typ		
L1	0.01	0.018	0.26	0.46	
9	0°	8°	0°	8°	





■SOT-363 Suggested Pad Layout







UMH9N

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