UNISONIC TECHNOLOGIES CO., LTD

UG9H **DUAL TRANSISTOR Preliminary**

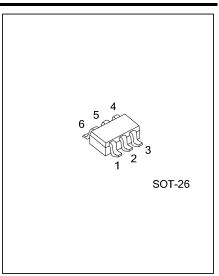
GENERAL PURPOSE (DUAL DIGITAL TRANSISTORS)

DESCRIPTION

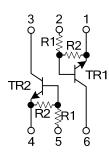
The UTC UG9H is a dual digital transistor, the transistor elements are independent and obviating interference, so the mounting cost and area can be cut in half.

FEATURES

- * Mounting cost and area can be cut in half.
- * Transistor elements are independent, obviating interference.



EQUIVALENT CIRCUIT

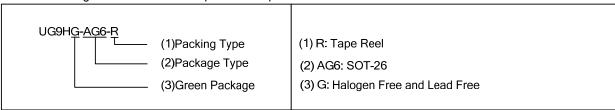


 $R_1, R_2=10k\Omega$

ORDERING INFORMATION

Ordering Number	Dealters	Pin Assignment					Daalina	
	Package	1	2	3	4	5	6	Packing
UG9HG-AG6-R	SOT-26	G1	11	02	G2	12	01	Tape Reel

Pin Assignment: G: GND I: Input O: Output Note:



MARKING



www.unisonic.com.tw 1 of 3

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V_{CC}	50	V
Input Voltage	V_{IN}	-6 ~ + 40	V
Output Current	lo	70	mA
	Ic	100	mA
Power Dissipation (Note 2)	P_D	150	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T _{STG}	-55 ~ + 150	°C

Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. 120mW per element must not be exceeded.

■ ELECTRICAL CHARACTERISTICS (T_A =25°C)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Input Voltage	$V_{I(OFF)}$	V _{CC} =5V, I _O =100μA			0.5	V
	$V_{I(ON)}$	V _O =0.3V, I _O =10mA	3			V
Output Voltage	$V_{O(ON)}$	I _O /I _I =10mA/0.5mA		0.1	0.3	V
Input Current	I.	V _I =5V			0.88	mA
Output Current	I _{O(OFF)}	V _{CC} =50V, V _I =0V			0.5	μΑ
DC Current Gain	G	V _O =5V, I _O =5mA	30			
Transition Frequency	f_T	V _{CE} =10V, I _E =-5mA, f=100MHz (Note 1)		250		MHz
Input Resistance	R ₁	_	7	10	13	ΚΩ
Resistance Ratio	R ₂ / R ₁		8.0	1	1.2	

Note: Transition frequency of the transistor.



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