

UTC UNISONIC TECHNOLOGIES CO., LTD

UG9H

Preliminary

GENERAL PURPOSE (DUAL DIGITAL TRANSISTORS)

DESCRIPTION

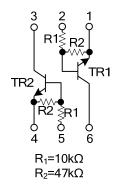
The UTC UG9H is a dual digital transistor, the transistor elements are independent and obviating interference, so the mounting cost and area can be cut in half.

FEATURES

* Mounting cost and area can be cut in half.

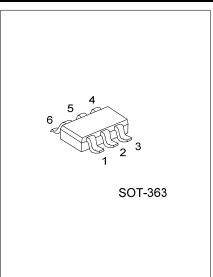
* Transistor elements are independent, obviating interference.

EQUIVALENT CIRCUIT



ORDERING INFORMATION

Ordering Number		Package						Packing	
Lead Free	Halogen Free	гаскауе	1 2 3 4		4	5	6	Facking	
UG9HL-AL6-R	UG9HG-AL6-R	SOT-363	G1	11	02	G2	12	01	Tape Reel
Note: Pin Assignment: G: C	GND I: Input O: Output								
UG9HL-AL6-R (1)Packing Type (2)Package Type (3)Halogen Free		(1) R: Tape Re (2) AL6: SOT-3 (3) L: Lead Fre	363	Halo	gen F	ree			



DUAL TRANSISTOR

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT	
Supply Voltage	V _{CC}	50	V	
Input Voltage	V _{IN}	-6 ~ +40	V	
Outrout Ourrent	lo	70	mA	
Output Current	Ιc	100	mA	
Power Dissipation (Note 2)	PD	150	mW	
Junction Temperature	ТJ	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	MIN	TYP	MAX	UNIT
	VI(OFF)	V _{CC} =5V, I _O =100µA			0.3	V
Input Voltage	V _{I(ON)}	V ₀ =0.3V, I ₀ =1mA	1.4			V
Output Voltage	V _{O(ON)}	I ₀ /I _I =5mA/0.25mA		0.1	0.3	V
Input Current	lı –	VI=5V			0.88	mA
Output Current	I _{O(OFF)}	V _{CC} =50V, V ₁ =0V			0.5	μA
DC Current Gain	Gı	V ₀ =5V, I ₀ =5mA	68			
Transition Frequency	f⊤	V _{CE} =10V, I _E =-5mA, f=100MHz (Note 1)		250		MHz
Input Resistance	R ₁		7	10	13	KΩ
Resistance Ratio	R ₂ / R ₁		3.7	4.7	5.7	

Note: Transition frequency of the transistor.



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