

UTC UNISONIC TECHNOLOGIES CO., LTD

UD3H **Preliminary DUAL TRANSISTOR**

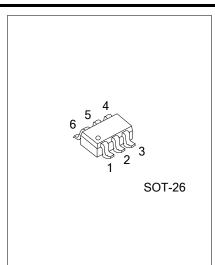
GENERAL PURPOSE (DUAL DIGITAL TRANSISTORS)

DESCRIPTION

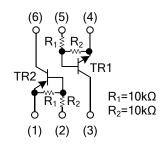
The UTC UD3H is Dual Digital Transistors including a NPN transistor and a PNP transistor. The transistor elements are independent to eliminate, interference.

FEATURES

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

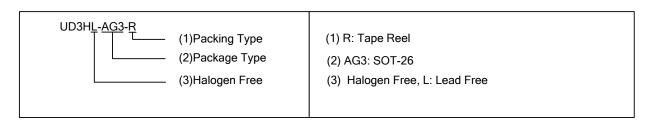


EQUIVALENT CIRCUIT



ORDERING INFORMATION

	Ordering Number		Dookogo	Pin Assignment					Dooking	
Γ	Lead Free	Halogen Free	Package	1	2	3	4	5	6	Packing
	UD3HL-AG6-R	UD3HG-AG6-R	SOT-26	E2	B2	C1	E1	B1	C2	Tape Reel



www.unisonic.com.tw 1 of 2 QW-R218-020.a

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT	
Supply Voltage	V _{CC}	50	V	
In most Malta ma		-10	V	
Input Voltage	V _{IN}	40	V	
Outro t Ourse at	Io	50	mA	
Output Current	I _{C(MAX.)}	100	mA	
Power Dissipation (Note 2)	P _D	300	mW	
Junction Temperature	TJ	150	°C	
Storage Temperature	T _{STG}	-55 ~ +150	°C	

Preliminary

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. 200mW per element must not be exceeded.

■ ELECTRICAL CHARACTERISTICS (T_A =25°C)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
lanut Valtaga	$V_{I(OFF)}$	V _{CC} =5V, I _O =100μA			0.5	V
Input Voltage	$V_{I(ON)}$	V _O =0.3V, I _O =10mA	3			V
Output Voltage	$V_{O(ON)}$	I _O =10mA, I _I =0.5mA		0.1	0.3	V
Input Current	II	V _I =5V			0.88	mA
Output Current	I _{O(OFF)}	V _{CC} =50V, V _I =0V			0.5	μA
Emitter Cutoff Current	Gı	V _O =5V, I _O =5mA	30			
Transition Frequency (Note 1)	f _T	V _{CE} =10V, I _E =-5mA, f=100MHz		250		MHz
Input Resistance	R ₁		7	10	13	ΚΩ
Resistance Ratio	R ₂ / R ₁	_	0.8	1	1.2	

Note: 1. Transition frequency of the device

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