

UTC UNISONIC TECHNOLOGIES CO., LTD

UG5K

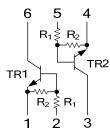
DUAL TRANSISTOR

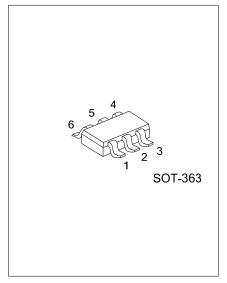
GENERAL PURPOSE (DUAL DIGITAL RANSISTORS)

FEATURES

* Two DTC114Y chips in a SOT-363 package.

EQUIVALENT CIRCUIT





ORDERING INFORMATION

Ordering Number	Package	Pin Assignment						Docking	
Ordering Number		1	2	3	4	5	6	Packing	
UG5KG-AL6-R	SOT-363	G1	11	02	G2	12	01	Tape Reel	
Note: Pin Assignment: B: Base C: Collector E: Emitter									
UG5KG-AL6-R (1)Packing Type (2)Package Type (3)Green Package		 (1) R: Tape Reel (2) AL6: SOT-363 (3) G: Halogen Free and Lead Free 							

MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless others specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V _{CC}	50	V
Input Voltage	V _{IN}	-6 ~ +40	V
Output Oursent	I _{OUT}	70	mA
Output Current	I _{O(MAX.)}	100	mA
Power Dissipation	PD	150	mW
Junction Temperature	TJ	+150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

Note: 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.

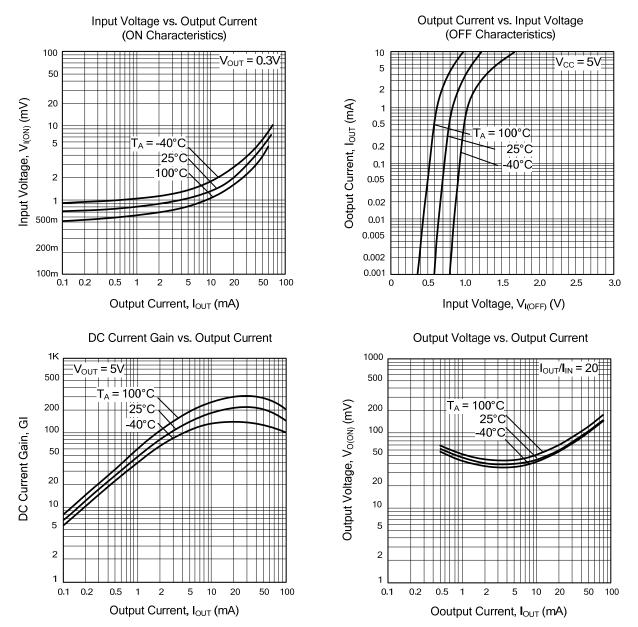
■ ELECTRICAL SPECIFICATIONS (T_A=25°C, unless others specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage	VIN(OFF)	V _{CC} =5V, I _{OUT} =100µA			0.3	V
	V _{IN(ON)}	V _{OUT} =0.3V, I _{OUT} =1mA	1.4			V
Output Voltage	V _{OUT(ON)}	I _{OUT} /I _{IN} =5mA/0.25mA		0.1	0.3	V
Input Current	l _{iN}	V _{IN} =5V			0.88	mA
Output Current	IOUT(OFF)	V _{CC} =50V, V _{IN} =0V			0.5	μA
DC Current Gain	h _{FE}	V _{OUT} =5V, I _{OUT} =5mA	68			
Input Resistance	R ₁		7	10	13	KΩ
Resistor Ratio	$\frac{R_2}{R_1}$		3.7	4.7	5.7	
Transition Frequency	f _T	V _{CE} =10V, I _E =-5mA, f=100MHz		250		MHz

Note: Transition frequency of the device.

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TYPICAL CHARACTERISTICS



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