



UB2K

DUAL TRANSISTOR

GENERAL PURPOSE (DUAL DIGITAL TRANSISTORS)

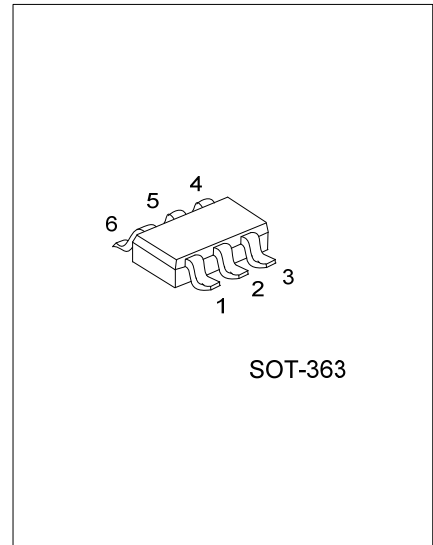
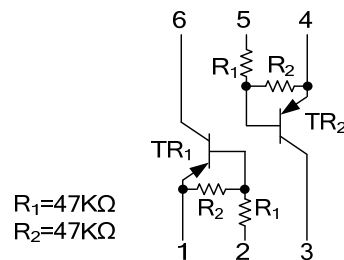
DESCRIPTION

As a dual digital transistor the UTC **UB2K** is epitaxial planar type PNP silicon transistor (built in resistor type).

FEATURES

- * Two DTA144E chips in a SOT-363 package.
- * Transistor elements are independent, eliminating interference.

SYMBOL



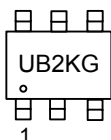
ORDERING INFORMATION

Ordering Number	Package	Pin Assignment						Packing
		1	2	3	4	5	6	
UB2KG-AL6-R	SOT-363	E1	B1	C2	E2	B2	C1	Tape Reel

Note: Pin Assignment: B: Base C: Collector E: Emitter

<p>UB2KG-AL6-R</p> <p>(1)Packing Type</p> <p>(2)Package Type</p> <p>(3)Green Package</p>	<p>(1) R: Tape Reel</p> <p>(2) AL6: SOT-363</p> <p>(3) G: Halogen Free and Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATING ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V_{CC}	-50	V
Input Voltage	V_{IN}	-40	V
		+10	
Output Current	I_{OUT}	-30	mA
	I_C	-100	
Power Dissipation	P_D	+150	mW
Junction Temperature	T_J	+150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

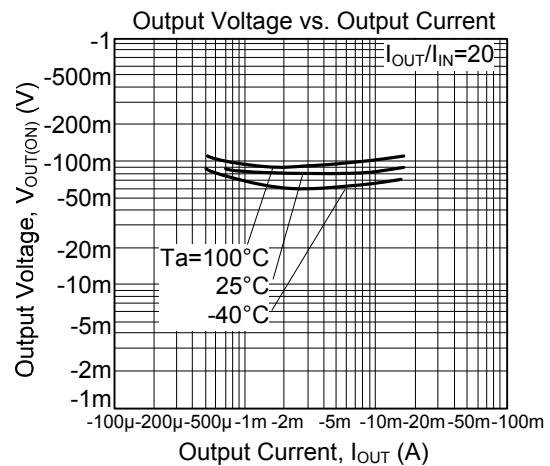
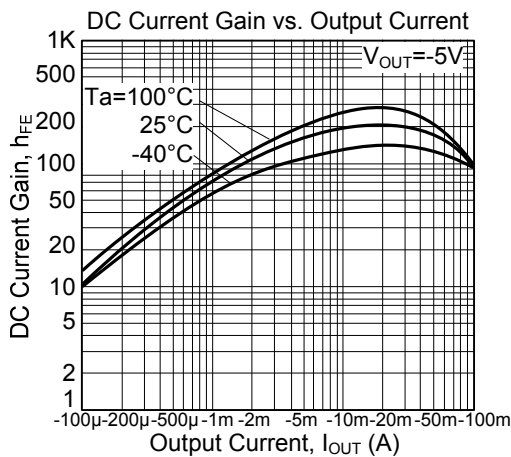
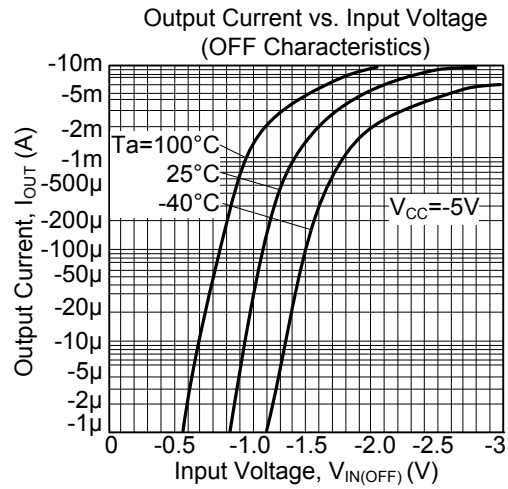
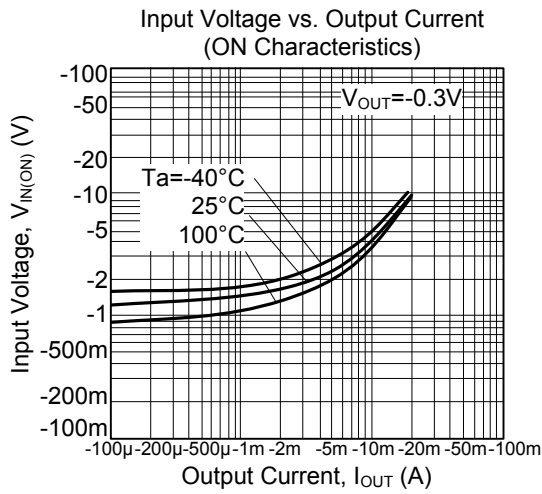
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage	$V_{I(OFF)}$	$V_{CC}=-5\text{V}, I_{OUT}=-100\mu\text{A}$			-0.5	V
	$V_{I(ON)}$	$V_{OUT}=-0.3\text{V}, I_{OUT}=-2\text{mA}$	-3			
Output Voltage	$V_{O(ON)}$	$I_O/I_I=-10\text{mA}/-0.5\text{mA}$		-0.1	-0.3	V
Input Current	I_{IN}	$V_{IN}=-5\text{V}$			-0.18	mA
Output Current	$I_{O(OFF)}$	$V_{CC}=-50\text{V}, V_{IN}=0\text{V}$			-0.5	μA
DC Current Gain	h_{FE}	$V_{OUT}=-5\text{V}, I_{OUT}=-5\text{mA}$	68			
Transition Frequency	f_T	$V_{CE}=-10\text{V}, I_E=5\text{mA}, f=100\text{MHZ}$ (Note)		250		MHz
Input Resistance	R_1		32.9	47	61.1	k Ω
Resistance Ratio	R_2/R_1		0.8	1	1.2	

Note: Transition frequency of the device

■ TYPICAL CHARACTERISTICS



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