



UH10K

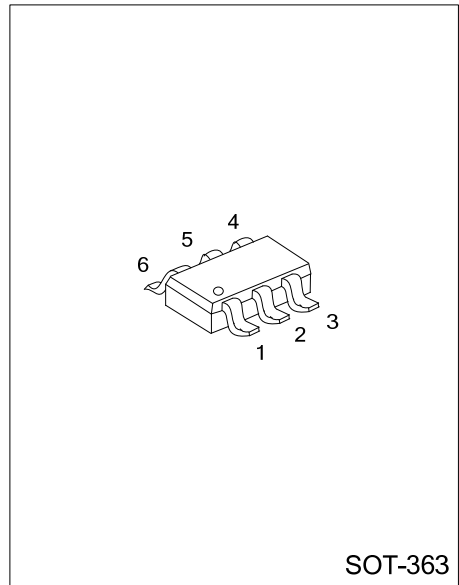
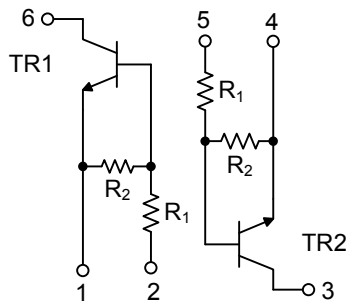
NPN SILICON TRANSISTOR

GENERAL PURPOSE (DUAL DIGITAL TRANSISTORS)

■ FEATURES

- * Two UTC **DTC123J** chips in a SOT-363 package.
- * Halogen Free

■ EQUIVALENT CIRCUIT ($R_1=2K\Omega$, $R_2=47K\Omega$)

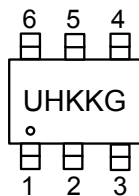


■ ORDERING INFORMATION

Ordering Number	Package	Pin Assignment						Packing
		1	2	3	4	5	6	
UH10KG-AL6-R	SOT-363	E1	B1	C2	E2	B2	C1	Tape Reel

<p>UH10KG-AL6-R</p> <ul style="list-style-type: none"> (1)Packing Type (2)Package Type (3)Halogen Free 	<ul style="list-style-type: none"> (1) R: Tape Reel (2) AL6: SOT-363 (3) G: Halogen Free
---	---

■ MARKING



■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V _{CC}	50	V
Input Voltage	V _{IN}	-5 ~ +12	V
Output Current	I _{OUT}	100	mA
	I _{C(MAX.)}	100	mA
Power Dissipation	P _D	150	mW
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

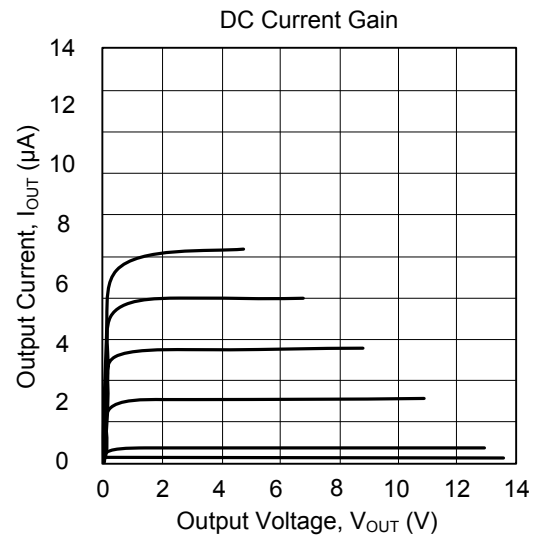
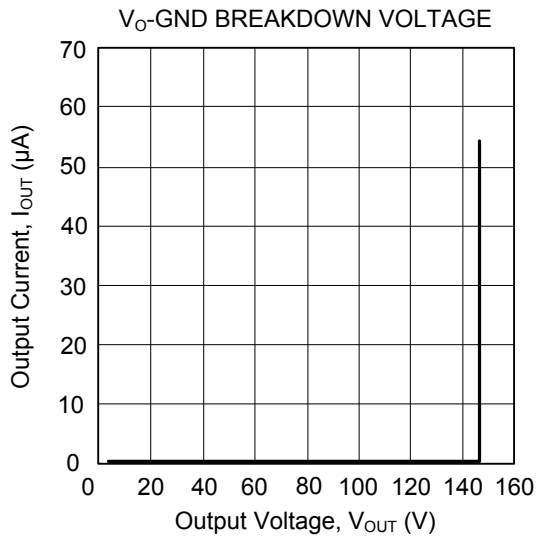
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage	V _{I(OFF)}	V _{CC} = 5V, I _{OUT} = 100μA			0.5	V
	V _{I(ON)}	V _{OUT} = 0.3V, I _{OUT} = 5mA	1.1			V
Output Voltage	V _{O(ON)}	I _{OUT} /I _{IN} = 5mA/0.25mA		0.1	0.3	V
Input Current	I _{IN}	V _{IN} = 5V			3.6	mA
Output Current	I _{O(OFF)}	V _{CC} = 50V, V _{IN} = 0V			0.5	μA
DC Current Gain	h _{FE}	V _{OUT} = 5V, I _{OUT} = 10mA	80			
Transition Frequency	f _T	V _{CE} = 10V, I _E = -5mA, f = 100MHz (Note)		250		MHz
Input Resistance	R ₁		1.4	2	2.6	kΩ
Resistance Ratio	R ₂ /R ₁		18	23	28	

Note: Transition frequency of the device

■ TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.