



UH10K

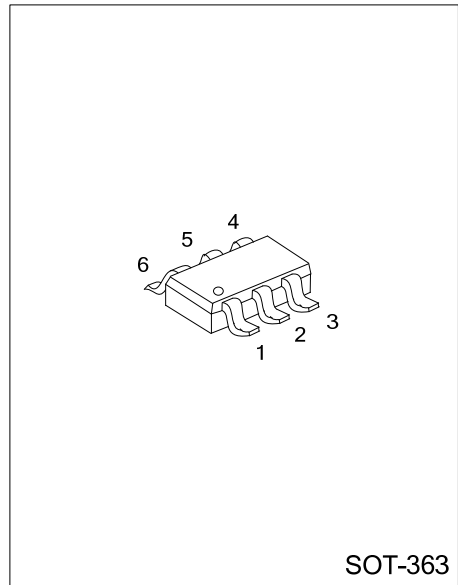
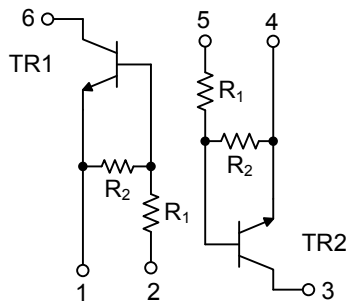
NPN SILICON TRANSISTOR

GENERAL PURPOSE (DUAL DIGITAL TRANSISTORS)

FEATURES

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

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

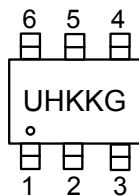


ORDERING INFORMATION

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

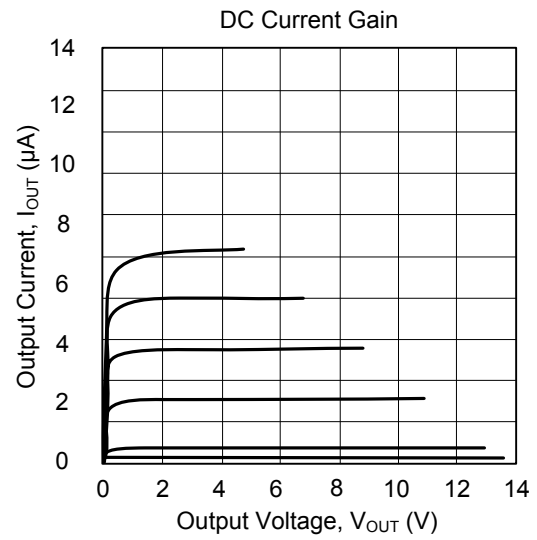
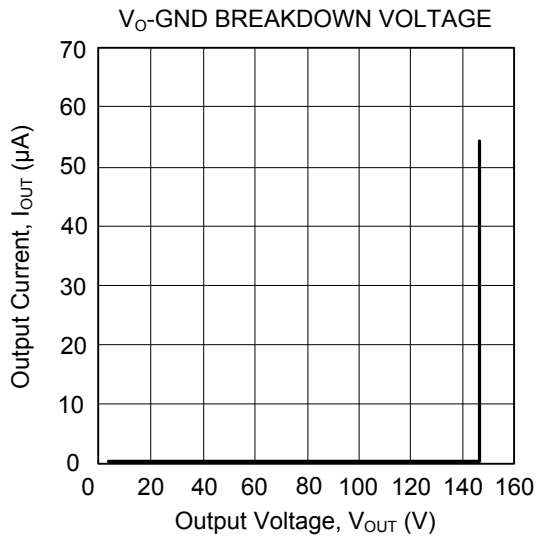
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ 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



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