



UB9K

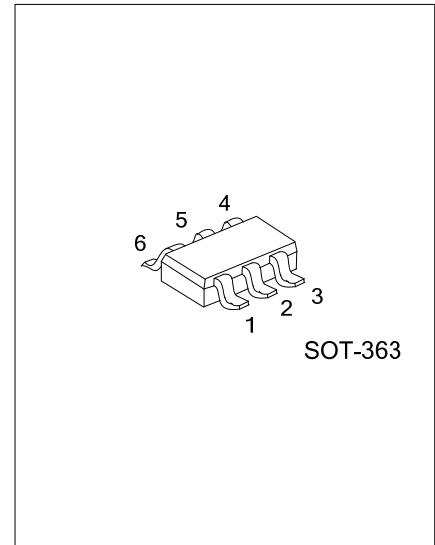
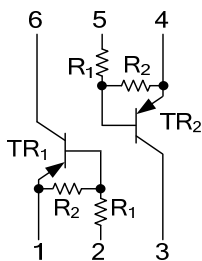
DUAL TRANSISTOR

GENERAL PURPOSE (DUAL DIGITAL TRANSISTORS)

FEATURES

* Two DTA114Y chips in a SOT-363 package.

EQUIVALENT CIRCUIT



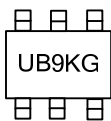
ORDERING INFORMATION

Ordering Number	Package	Pin Assignment						Packing
		1	2	3	4	5	6	
UB9KG-AL6-R	SOT-363	G1	I1	O2	G2	I2	O1	Tape Reel

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

<p>UB9KG-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



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■ ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V_{CC}	-50	V
Input Voltage	V_{IN}	-40 ~ +6	V
Output Current	I_{OUT}	-70	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.

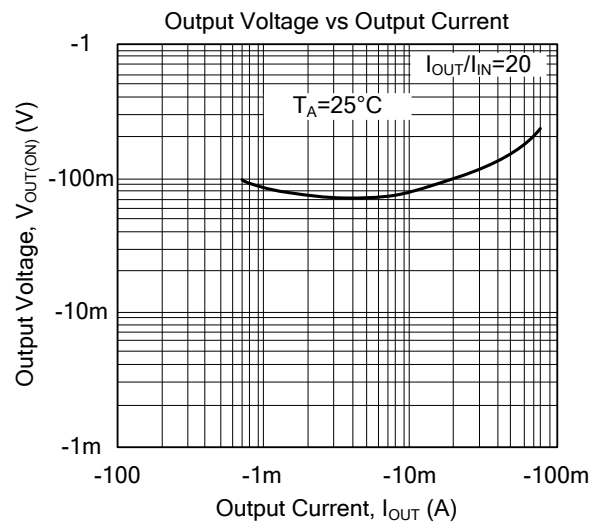
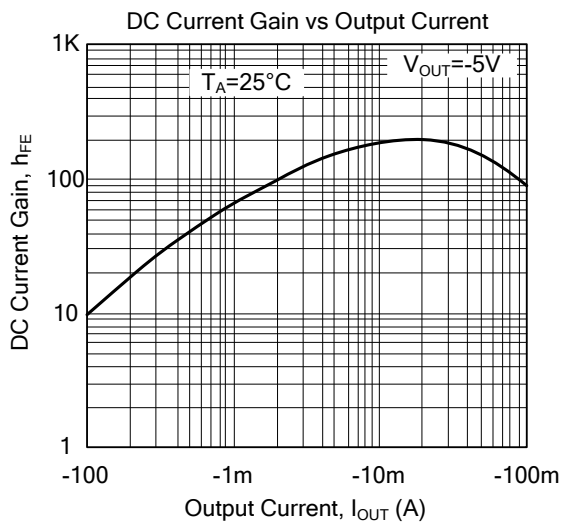
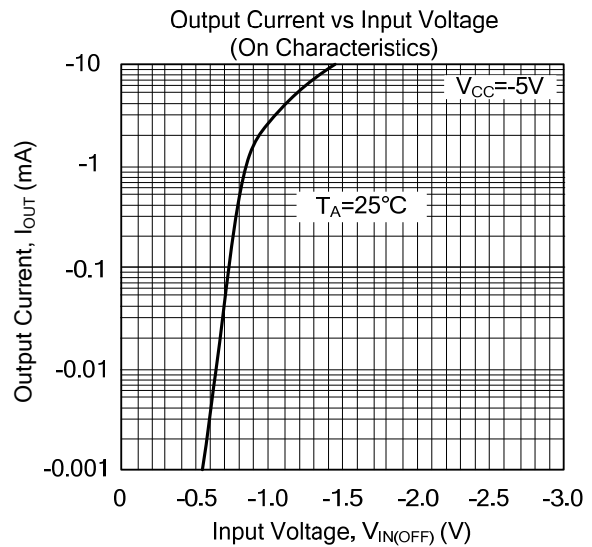
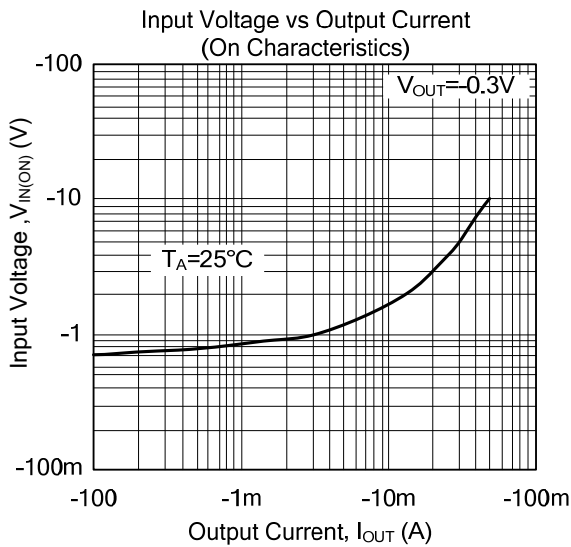
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage	$V_{IN(OFF)}$	$V_{CC}=-5V, I_{OUT}=-100\mu A$			-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	I_{IN}	$V_{IN}=-5V$			-0.88	mA
Output Current	$I_{OUT(OFF)}$	$V_{CC}=-50V, V_{IN}=0V$			-0.5	μA
DC Current Gain	h_{FE}	$V_{OUT}=-5V, I_{OUT}=-5mA$	68			
Input Resistance	R_1		7	10	13	K Ω
Resistance Ratio	R_2/R_1		3.7	4.7	5.7	
Transition Frequency	f_T	$V_{CE}=-10V, I_E=5mA, f=100MHz(\text{Note})$		250		MHz

Note: Transition frequency of the device.

TYPICAL CHARACTERISTICS



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