



# UB9K

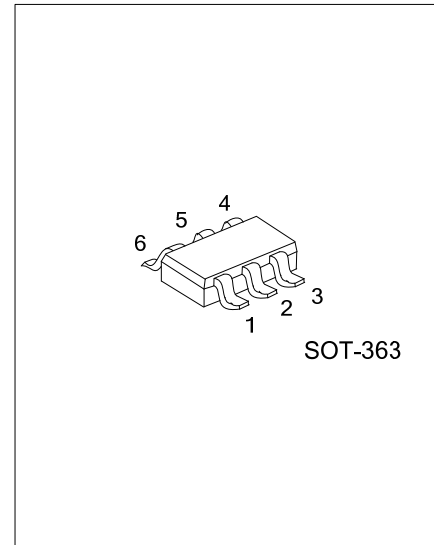
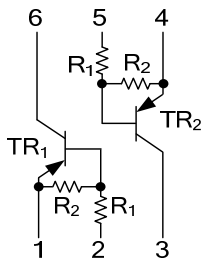
## DUAL TRANSISTOR

### GENERAL PURPOSE (DUAL DIGITAL TRANSISTORS)

■ FEATURES

\* Two DTA114Y chips in a SOT-363 package.

■ EQUIVALENT CIRCUIT



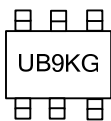
■ ORDERING INFORMATION

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



■ 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.

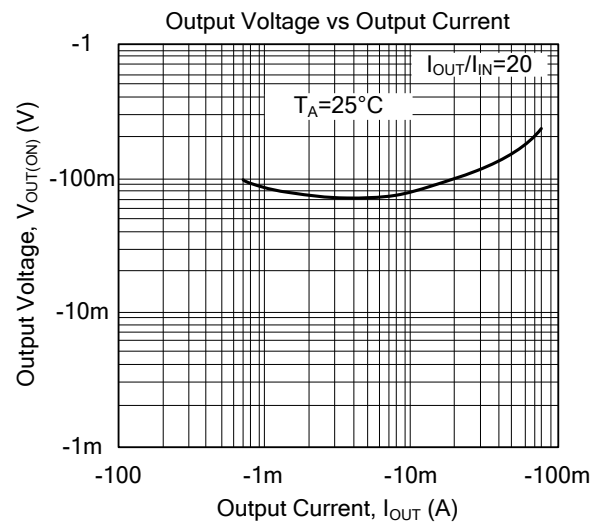
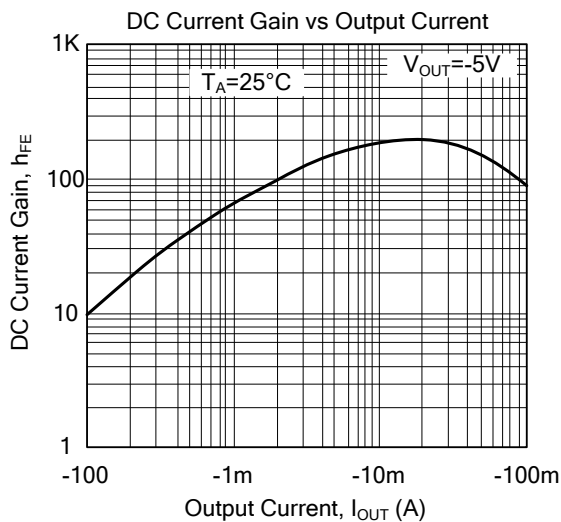
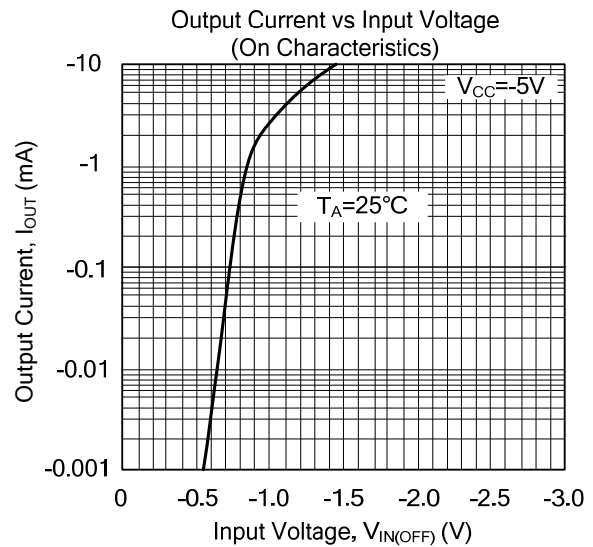
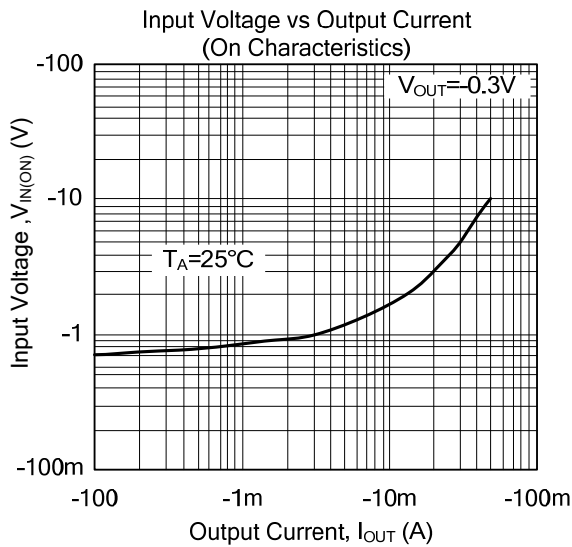
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ 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	$\mu A$
DC Current Gain	$h_{FE}$	$V_{OUT}=-5V, I_{OUT}=-5mA$	68			
Input Resistance	$R_1$		7	10	13	K $\Omega$
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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