

## UA6K

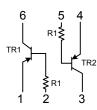
### DUAL TRANSISTOR

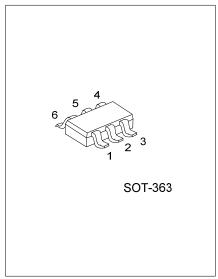
# GENERAL PURPOSE (DUAL DIGITAL TRANSISTOR)

#### FEATURES

\* Two DTA144T chips in a SOT-363 package. \* Mounting cost and area can be cut in half.

#### EQUIVALENT CIRCUIT

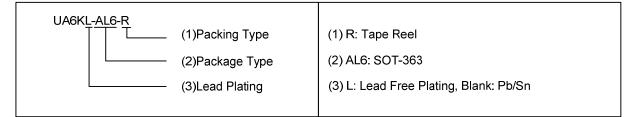




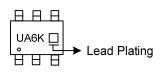
\*Pb-free plating product number: UA6KL

#### ORDERING INFORMATION

Ordering Number		Deeleere	Pin Assignment					Decking	
Normal	Lead Free Plating	Package	1	2	3	4	5	6	Packing
UA6K-AL6-R	UA6KL-AL6-R	SOT-363	E1	B1	C2	E2	B2	C1	Tape Reel



#### MARKING



#### ■ ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT	
Collector-Base Voltage	V <sub>CBO</sub>	-50	V	
Collector-Emitter Voltage	V <sub>CEO</sub>	-50	V	
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V	
Collector Current	Ι <sub>C</sub>	-100	mA	
Collector Power dissipation	Pc	200	mW	
Junction Temperature	TJ	150	°C	
Storage Temperature	T <sub>STG</sub>	-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.

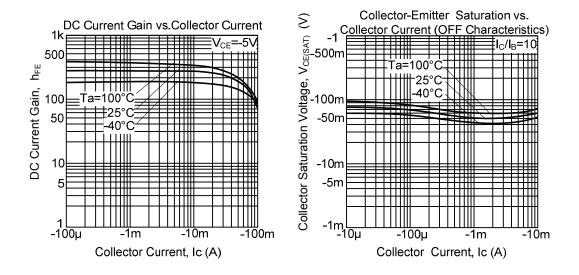
#### ■ ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	BV <sub>CBO</sub>	I <sub>C</sub> =-50μΑ	-50			V
Collector-emitter breakdown voltage	BV <sub>CEO</sub>	I <sub>C</sub> =-1mA	-50			V
Emitter-base breakdown voltage	BV <sub>EBO</sub>	I <sub>E</sub> =-50μA	-5			V
Collector cutoff current	I <sub>CBO</sub>	V <sub>CB</sub> =-50V			-0.5	μA
Emitter cutoff current	I <sub>EBO</sub>	V <sub>EB</sub> =-4V			-0.5	μA
Collector-emitter saturation voltage	V <sub>CE(SAT)</sub>	I <sub>C</sub> =-5mA, I <sub>B</sub> = -0.5mA			-0.3	V
DC current transfer ratio	h <sub>FE</sub>	$V_{CE}$ =-5V, I <sub>C</sub> = -1mA	100	250	600	
Transition frequency	f⊤	V <sub>CE</sub> =-10V, I <sub>E</sub> =5mA, f=100MHz (Note)		250		MHz
Input resistance	R1		32.9	47	61.1	kΩ

Note: Transition frequency of the device



#### TYPICAL CHARACTERISTICS



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