

UTC UNISONIC TECHNOLOGIES CO., LTD

UG9K

DUAL TRANSISTOR

COMPOUND TRANSISTORS UG9K

DESCRIPTION

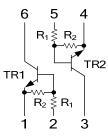
As a compound transistor with resistor, the UTC UG9K is for switching application.

FEATURES

* Silicon epitaxial type

* The internal tow transistor elements are independent.

SYMBOL



ORDERING INFORMATION

SOT-363

Ordering Number		Daakaga	Pin Assignment					Deaking	
	Ordering Number	Package	1	2	3	4	5	6	Packing
	UG9KG-AL6-R	SOT-363	E1	B1	C2	E2	B2	C1	Tape Reel
Note:	Note: Pin Assignment: E: Emitter B: Base C: Collector								
	UG9K <u>G-AL6</u> -R								
(1)Packing Type (2)Package Type		(1) R: Tape Reel							
		(2) AL6: SOT	-363						

(3)Green Package

(3) G: Halogen Free and Lead Free

MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	10	V
Collector Current	lc	100	mA
Collector Power Dissipation	Pc	150	mW
Junction Temperature	TJ	+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°C, unless otherwise specified)

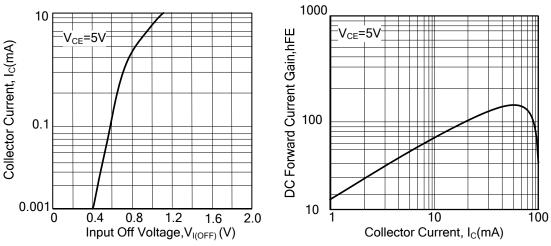
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =100μA	50			V
	V _{IN(ON)}	V _{CE} =0.3V, I _C =10mA	3			V
Input Voltage	VIN(OFF)	V _{CE} =5V, I _C =100μA			0.5	V
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C /I _B =10mA/0.5mA		0.1	0.3	V
Collector Cutoff Current	I _{CBO}	V _{CB} =50V			0.1	μA
DC Current Transfer Ratio	h _{FE}	V _{CE} =5V, I _C =5mA	30			
Transition Frequency	f⊤	V _{CE} =10V, I _E =-5mA		250		MHz
Input Resistance	R₁		7	10	13	kΩ
Resistor Ratio	R ₂ /R ₁		0.8	1	1.2	



TYPICAL CHARACTERISTICS

Collector Current VS. Input Off Voltage





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