UG9K DUAL TRANSISTOR

COMPOUND TRANSISTORS UG9K

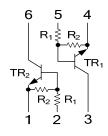
■ DESCRIPTION

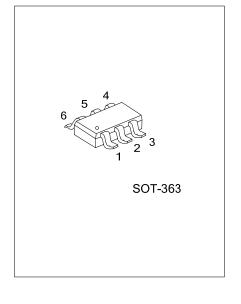
As a compound transistor with resistor, the UTC ${\bf UG9K}$ is for switching application.

■ FEATURES

- * Silicon epitaxial type
- * The internal tow transistor elements are independent.

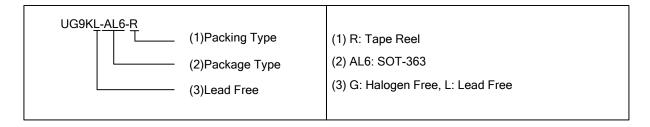
■ SYMBOL



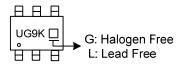


■ ORDERING INFORMATION

Ordering Number		Dankana	Pin Assignment					Doolsing	
Lead Free	Halogen Free	Package	1	2	3	4	5	6	Packing
UG9KL-AL6-R	UG9KG-AL6-R	SOT-363	E1	В1	C2	E2	B2	C1	Tape Reel



MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

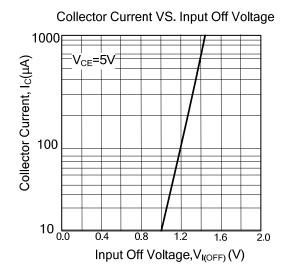
PARAMETER	SYMBOL	RATINGS	UNIT	
Collector-Base Voltage	V_{CBO}	50	V	
Collector-Emitter Voltage	V_{CEO}	50	V	
Emitter-Base Voltage	V_{EBO}	10	V	
Collector Current	Ic	100	mA	
Collector Power Dissipation	Pc	150	mW	
Junction Temperature	T_J	+150	°C	
Storage Temperature	T _{STG}	-55 ~ +150	°C	

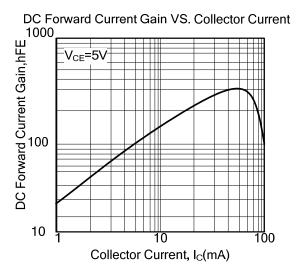
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

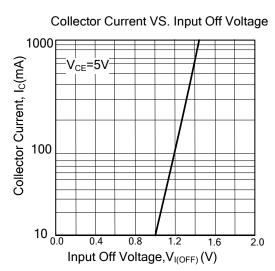
■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_CBO	I _C =100μA	50			V
Input Voltage	$V_{IN(ON)}$	V_{CE} =0.2V, I_{C} =5mA		1.5	3.0	V
	$V_{IN(OFF)}$	V _{CE} =5V, I _C =100μA	8.0	1.1		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	μΑ
DC Current Transfer Ratio	h_{FE}	V _{CE} =5V, I _C =10mA	50			
Transition Frequency	f_T	V _{CE} =6, I _E =-10mA,		200		MHz
Input Resistance	R ₁		7	10	13	kΩ
Resistor Ratio	R ₂ /R ₁		0.9	1	0.1	

■ TYPICAL CHARACTERISTICS







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