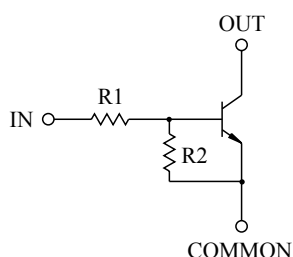


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

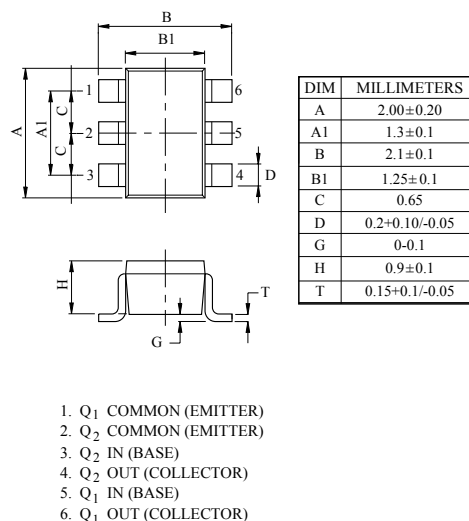
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

EQUIVALENT CIRCUIT



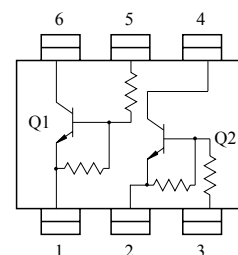
BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRC827U	10	47
KRC828U	22	47
KRC829U	47	22



US6

EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25℃)

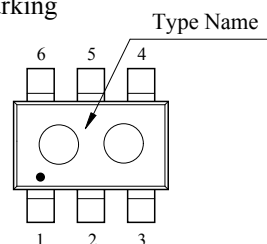
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC827U ~ 829U	V _O	50	V
Input Voltage	KRC827U	V _I	30, -6	V
	KRC828U		40, -7	
	KRC829U		40, -15	
Output Current	KRC827U ~ 829U	I _O	100	mA
Power Dissipation		P _D *	200	mW
Junction Temperature		T _j	150	℃
Storage Temperature Range		T _{stg}	-55 ~ 150	℃

* Total Rating.

MARK SPEC

TYPE	KRC827U	KRC828U	KRC829U
MARK	YH	YI	YJ

Marking



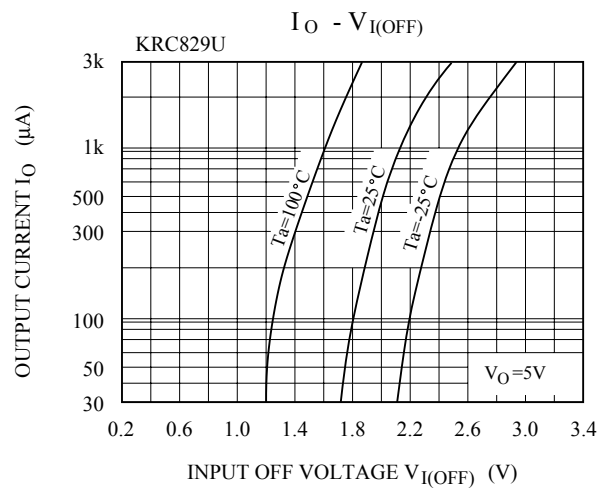
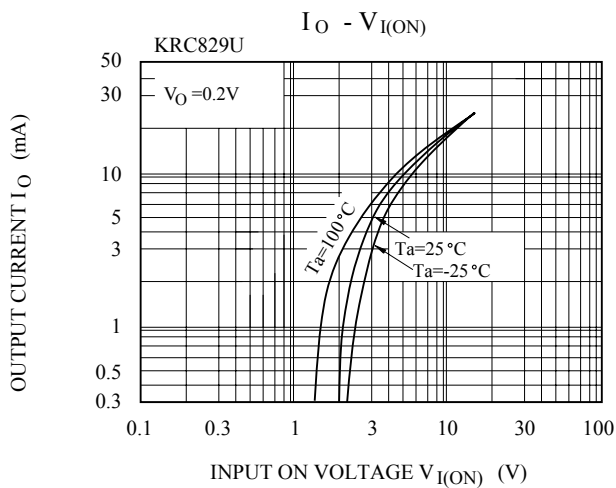
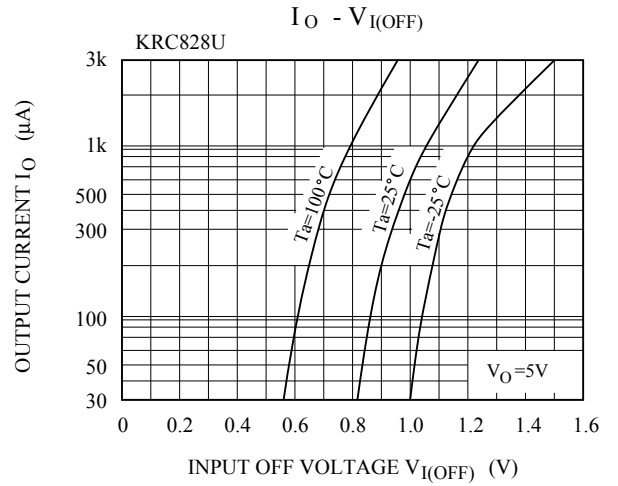
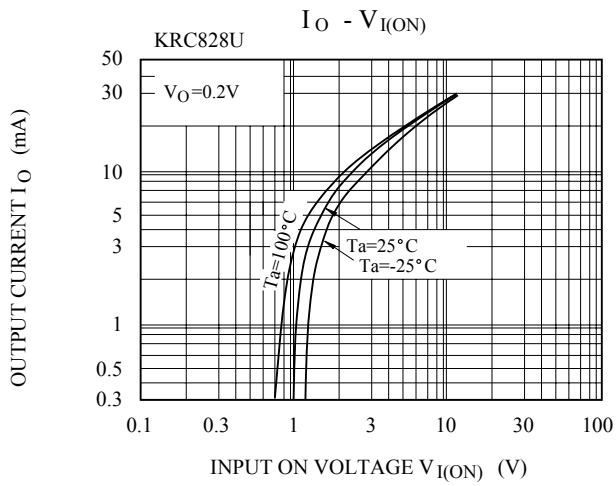
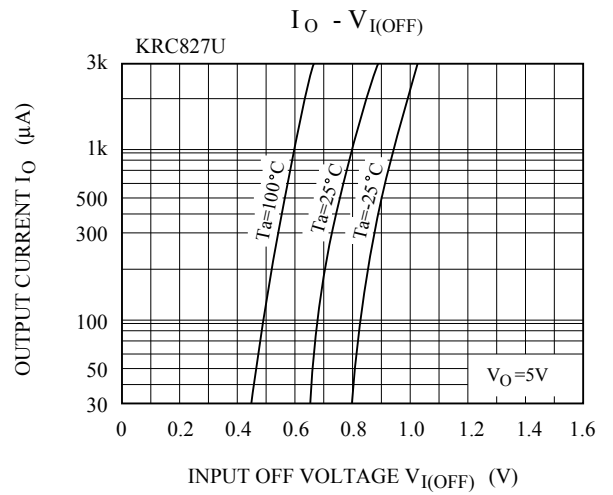
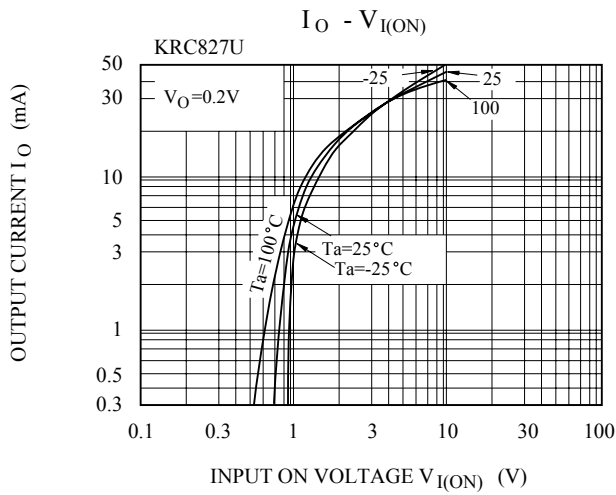
KRC827U~KRC829U

ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current		KRC827U ~ 829U	I _{O(OFF)}	V _O =50V, V _I =0	-	-	500	nA
DC Current Gain		KRC827U	G _I	V _O =5V, I _O =10mA	80	150	-	
		KRC828U			80	150	-	
		KRC829U			70	140	-	
Output Voltage		KRC827U ~ 829U	V _{O(ON)}	I _O =10mA, I _I =0.5mA	-	0.1	0.3	V
Input Voltage (ON)		KRC827U	V _{I(ON)}	V _O =0.2V, I _O =5mA	-	1.2	1.8	V
		KRC828U			-	1.8	2.6	
		KRC829U			-	3.0	5.8	
Input Votlage (OFF)		KRC827U	V _{I(OFF)}	V _O =5V, I _O =0.1mA	0.5	0.75	-	V
		KRC828U			0.6	0.88	-	
		KRC829U			1.5	1.82	-	
Transition Frequency		KRC827U ~ 829U	f _T *	V _O =10V, I _O =5mA	-	200	-	MHz
Input Current		KRC827U	I _I	V _I =5V	-	-	0.88	mA
		KRC828U			-	-	0.36	
		KRC829U			-	-	0.16	
Switching Time	Rise Time	KRC827U	t _r	V _O =5V, V _{IN} =5V R _L =1kΩ	-	0.05	-	μS
		KRC828U			-	0.12	-	
		KRC829U			-	0.26	-	
	Storage Time	KRC827U	t _{stg}		-	2.0	-	
		KRC828U			-	2.4	-	
		KRC829U			-	1.5	-	
	Fall Time	KRC827U	t _f		-	0.36	-	
		KRC828U			-	0.4	-	
		KRC829U			-	0.41	-	

Note : * Characteristic of Transistor Only.

KRC827U~KRC829U



KRC827U~KRC829U

