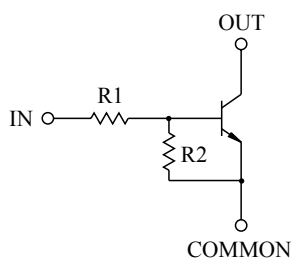


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

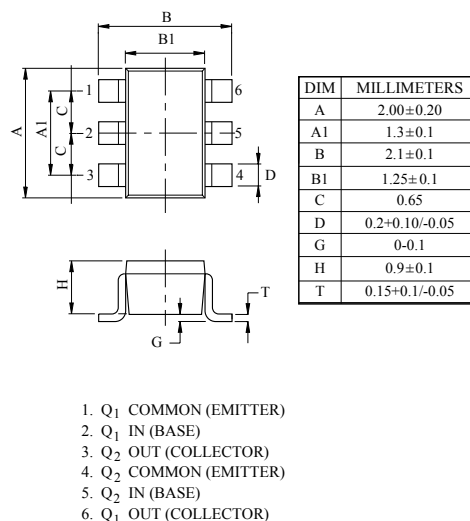
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

EQUIVALENT CIRCUIT



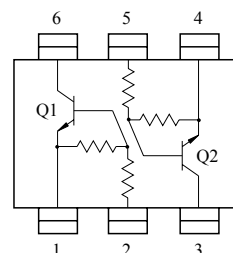
BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRC857U	10	47
KRC858U	22	47
KRC859U	47	22



US6

EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25°C)

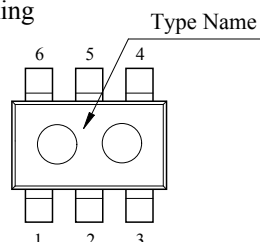
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC857U~859U	V _O	50	V
Input Voltage	KRC857U	V _I	30, -6	V
	KRC858U		40, -7	
	KRC859U		40, -15	
Output Current	KRC857U~859U	I _O	100	mA
Power Dissipation		P _D *	200	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55 ~ 150	°C

* Total Rating.

MARK SPEC

TYPE	KRC857U	KRC858U	KRC859U
MARK	NH	NI	NJ

Marking



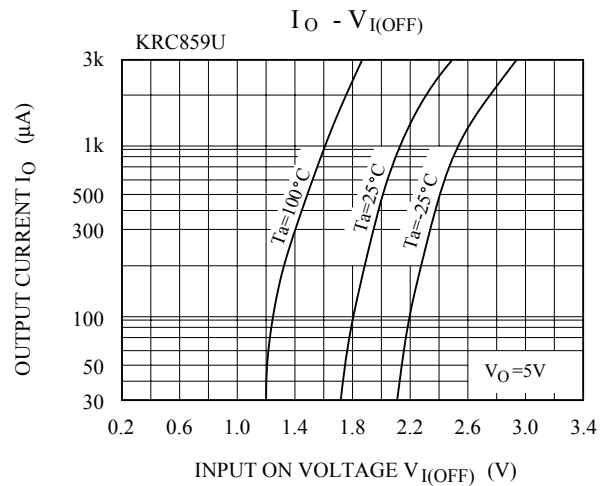
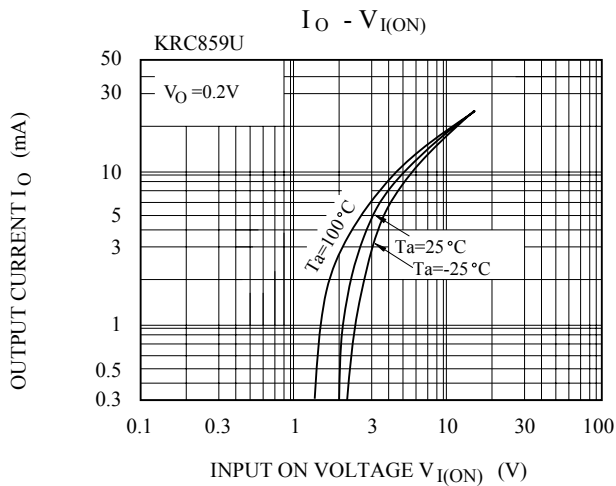
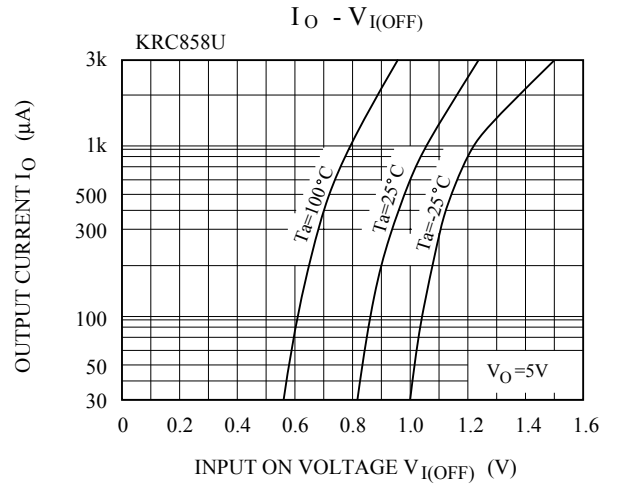
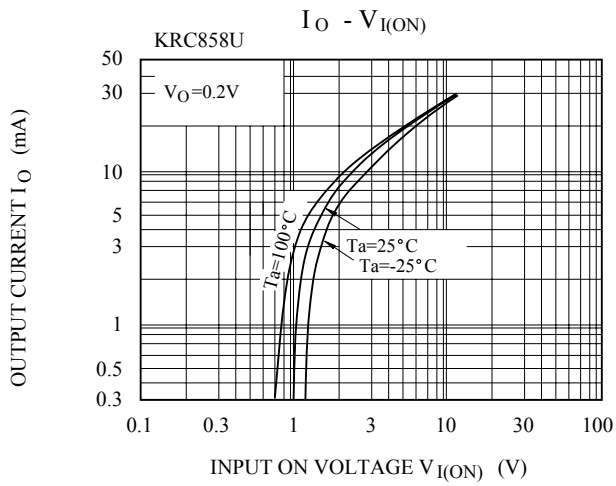
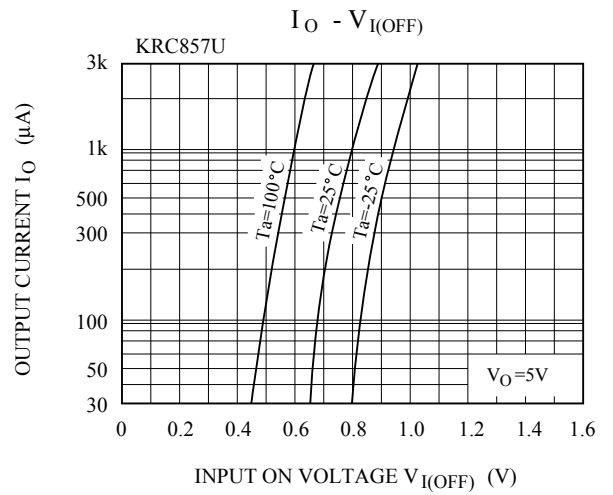
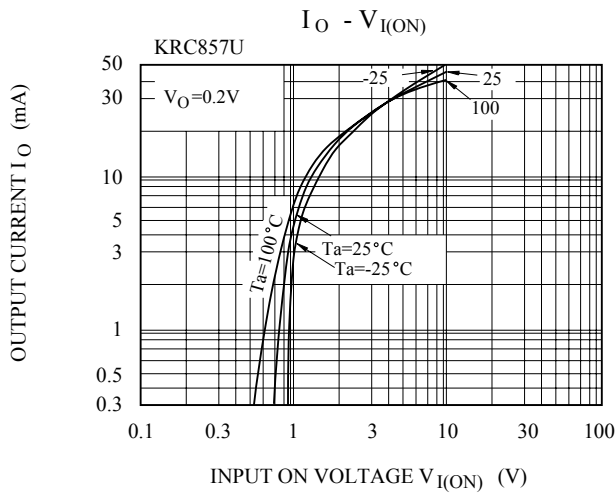
KRC857U~KRC859U

ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Output Cut-off Current			KRC857U ~ 859U	I _{O(OFF)}	V _O =50V, V _I =0	-	-	500	nA
DC Current Gain			KRC857U	G _I	V _O =5V, I _O =10mA	80	150	-	
			KRC858U			80	150	-	
			KRC859U			70	140	-	
Output Voltage			KRC857U ~ 859U	V _{O(ON)}	I _O =10mA, I _I =0.5mA	-	0.1	0.3	V
Input Voltage (ON)			KRC857U	V _{I(ON)}	V _O =0.2V, I _O =5mA	-	1.2	1.8	V
			KRC858U			-	1.8	2.6	
			KRC859U			-	3.0	5.8	
Input Votlage (OFF)			KRC857U	V _{I(OFF)}	V _O =5V, I _O =0.1mA	0.5	0.75	-	V
			KRC858U			0.6	0.88	-	
			KRC859U			1.5	1.82	-	
Transition Frequency			KRC857U ~ 859U	f _I *	V _O =10V, I _O =5mA	-	200	-	MHz
Input Current			KRC857U	I _I	V _I =5V	-	-	0.88	mA
			KRC858U			-	-	0.36	
			KRC859U			-	-	0.16	
Switching Time	Rise Time	KRC857U	t _r	V _O =5V, V _{IN} =5V R _L =1kΩ	-	0.05	-	μS	
		KRC858U			-	0.12	-		
		KRC859U			-	0.26	-		
	Storage Time	KRC857U	t _{stg}		-	2.0	-		
		KRC858U			-	2.4	-		
		KRC859U			-	1.5	-		
	Fall Time	KRC857U	t _f		-	0.36	-		
		KRC858U			-	0.4	-		
		KRC859U			-	0.41	-		

Note : * Characteristic of Transistor Only.

KRC857U~KRC859U



KRC857U~KRC859U

