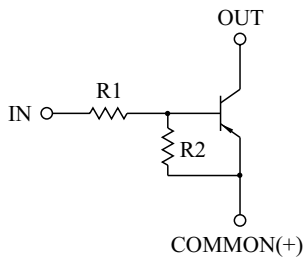


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

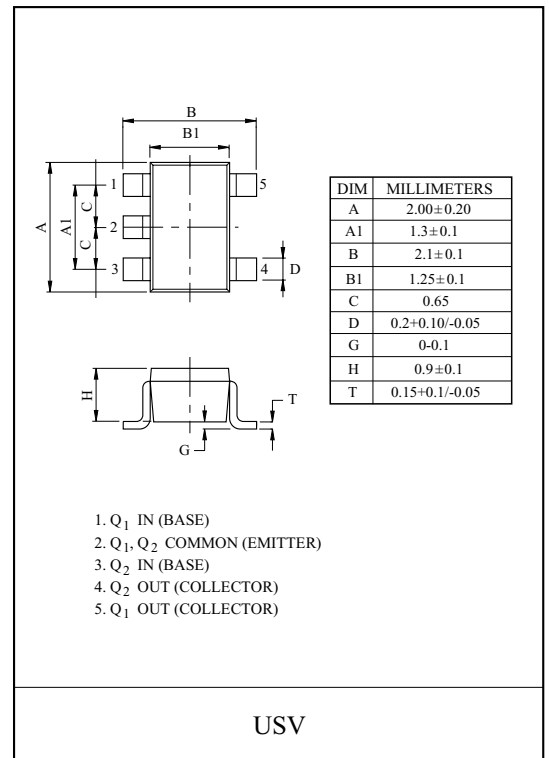
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process
- High Packing Density.

### EQUIVALENT CIRCUIT

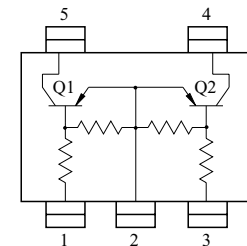


### BIAS RESISTOR VALUES

TYPE NO.	R1(k )	R2(k )
KRA557U	10	47
KRA558U	22	47
KRA559U	47	22



### EQUIVALENT CIRCUIT (TOP VIEW)



### MAXIMUM RATING (Ta=25 )

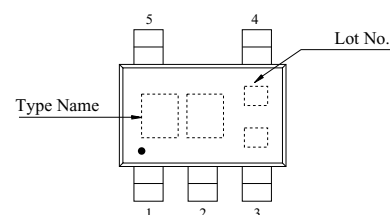
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA557U 559U	V <sub>O</sub>	-50	V
Input Voltage	KRA557U	V <sub>I</sub>	-30, 6	V
	KRA558U		-40, 7	
	KRA559U		-40, 15	
Output Current	KRA557U 559U	I <sub>O</sub>	-100	mA
Power Dissipation		P <sub>D</sub> *	200	mW
Junction Temperature		T <sub>j</sub>	-55~150	
Storage Temperature Range		T <sub>stg</sub>	-55~150	

\* Total Rating.

### MARK SPEC

TYPE	KRA557U	KRA558U	KRA559U
MARK	PH	PI	PJ

### Marking



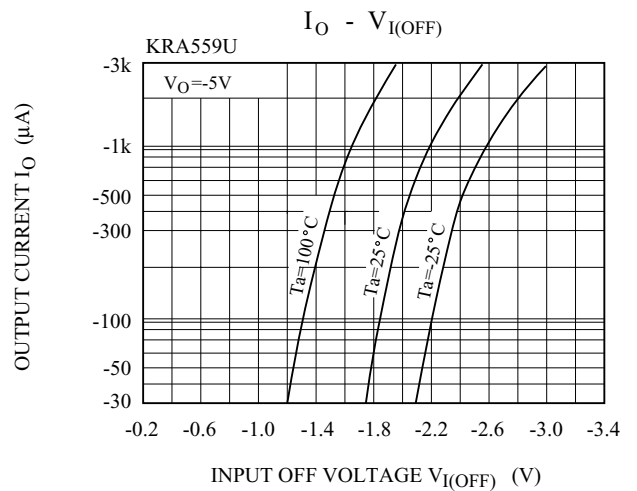
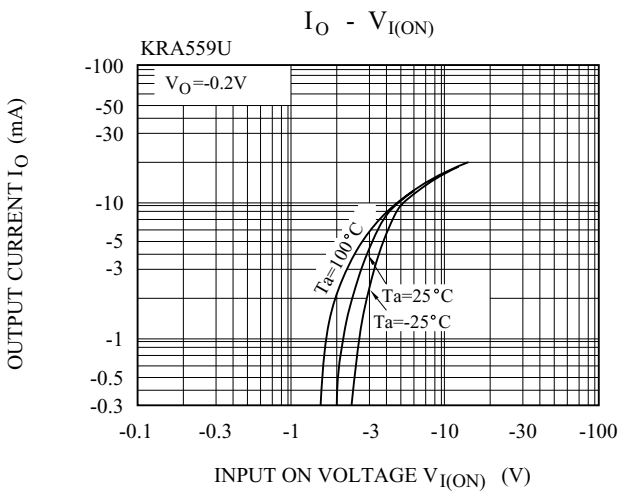
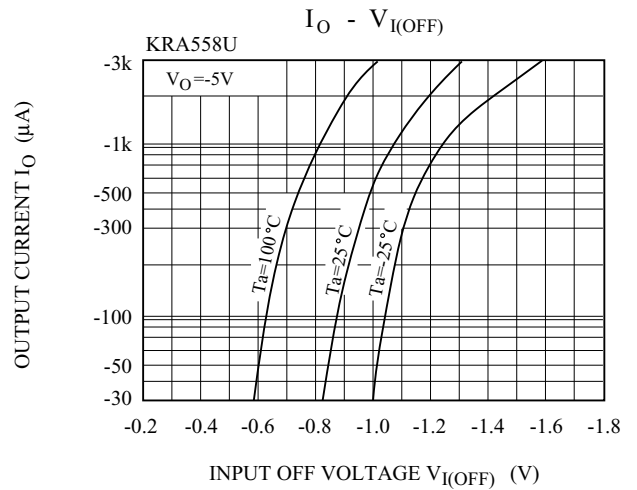
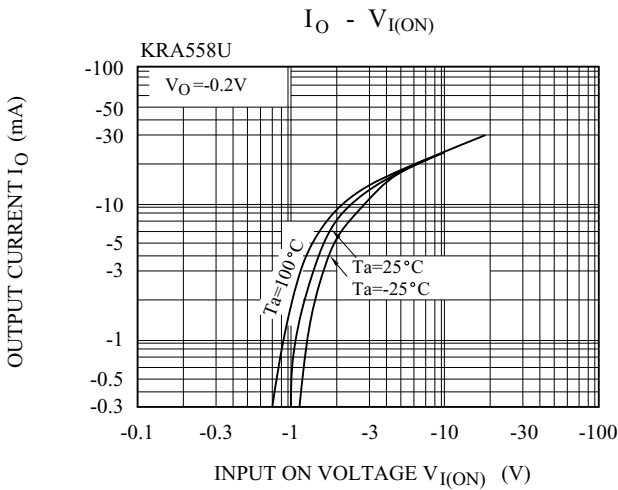
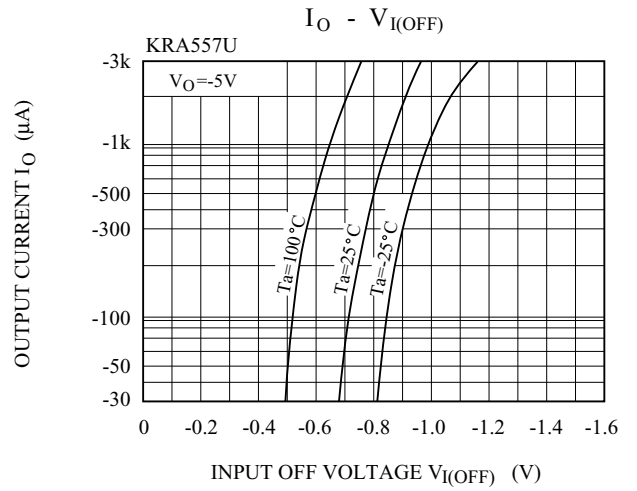
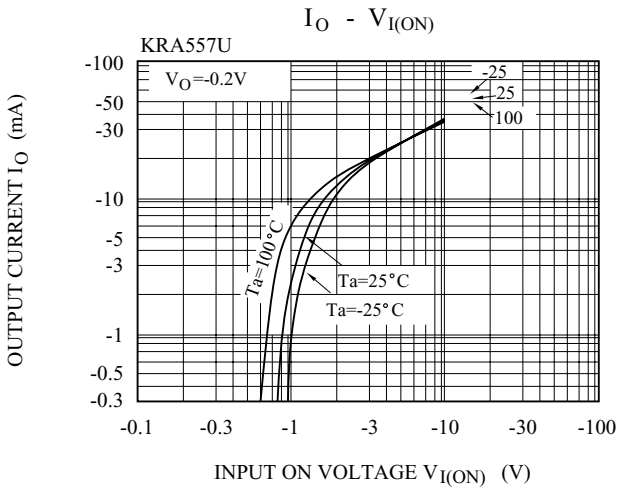
# KRA557U~KRA559U

## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Output Cut-off Current		KRA557U 559U	$I_{O(OFF)}$	$V_O=-50V, V_I=0$	-	-	-500	nA
DC Current Gain	KRA557U		$G_I$	$V_O=-5V, I_O=-10mA$	80	150	-	
	KRA558U				80	150	-	
	KRA559U				70	140	-	
Output Voltage		KRA557U 559U	$V_{O(ON)}$	$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	KRA557U		$V_{I(ON)}$	$V_O=-0.2V, I_O=-5mA$	-	-1.2	-1.8	V
	KRA558U				-	-1.8	-2.6	
	KRA559U				-	-3.0	-5.8	
Input Voltage (OFF)	KRA557U		$V_{I(OFF)}$	$V_O=-5V, I_O=-0.1mA$	-0.5	-0.75	-	V
	KRA558U				-0.6	-0.88	-	
	KRA559U				-1.5	-1.82	-	
Transition Frequency		KRA557U 559U	$f_T^*$	$V_O=-10V, I_O=-5mA$	-	200	-	MHz
Input Current	KRA557U		$I_I$	$V_I=-5V$	-	-	-0.88	mA
	KRA558U				-	-	-0.36	
	KRA559U				-	-	-0.16	
Switching Time	Rise Time	KRA557U	$t_r$	$V_O=-5V, V_{IN}=-5V$ $R_L=1k$	-	0.07	-	$\mu s$
		KRA558U			-	0.20	-	
		KRA559U			-	0.38	-	
	Storage Time	KRA557U	$t_{stg}$		-	1.1	-	
		KRA558U			-	1.3	-	
		KRA559U			-	0.7	-	
	Fall Time	KRA557U	$t_f$		-	0.35	-	
		KRA558U			-	0.4	-	
		KRA559U			-	0.48	-	
Input Resistor	KRA557U		R1	-	7	10	13	k
	KRA558U				15.4	22	28.6	
	KRA559U				32.9	47	61.1	
Resistor Ratio	KRA557U		R2/R1	-	3.7	4.7	5.7	
	KRA558U				1.7	2.1	2.6	
	KRA559U				0.37	0.47	0.57	

Note : \* Characteristic of Transistor Only.

# KRA557U~KRA559U



# KRA557U~KRA559U

