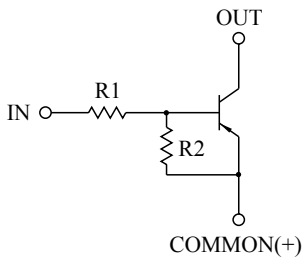


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

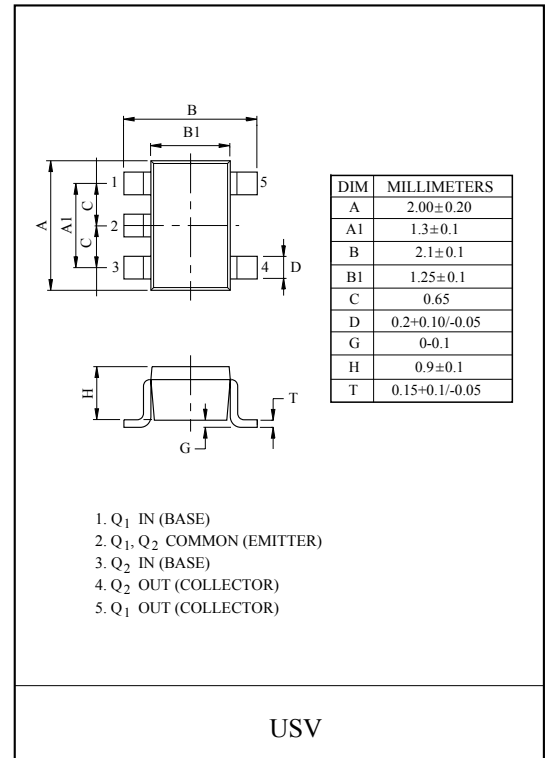
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process
- High Packing Density.

EQUIVALENT CIRCUIT

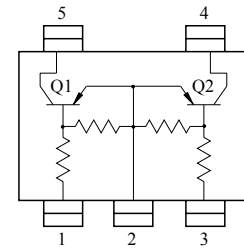


BIAS RESISTOR VALUES

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



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25°C)

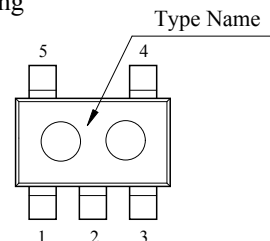
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA557U~559U	V _O	-50	V
Input Voltage	KRA557U	V _I	-30, 6	V
	KRA558U		-40, 7	
	KRA559U		-40, 15	
Output Current	KRA557U~559U	I _O	-100	mA
Power Dissipation		P _D *	200	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C

* Total Rating.

Marking

MARK SPEC

TYPE	KRA557U	KRA558U	KRA559U
MARK	PH	PI	PJ



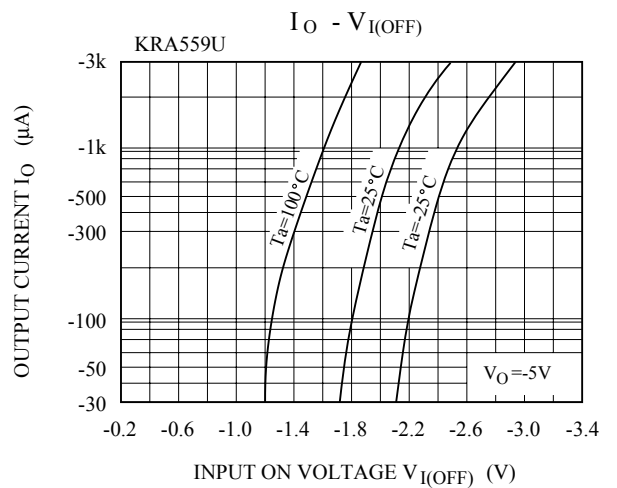
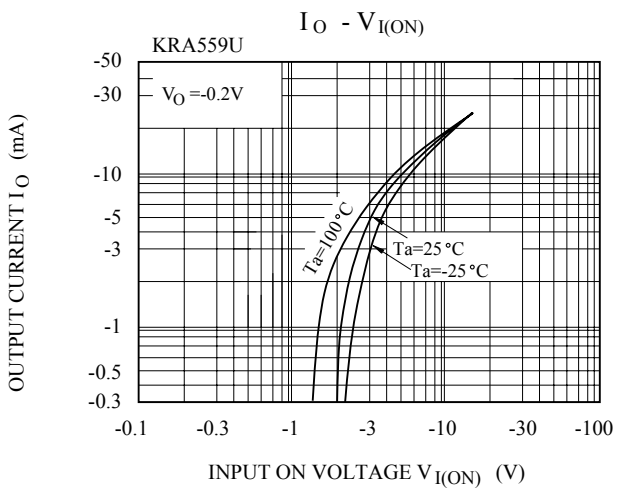
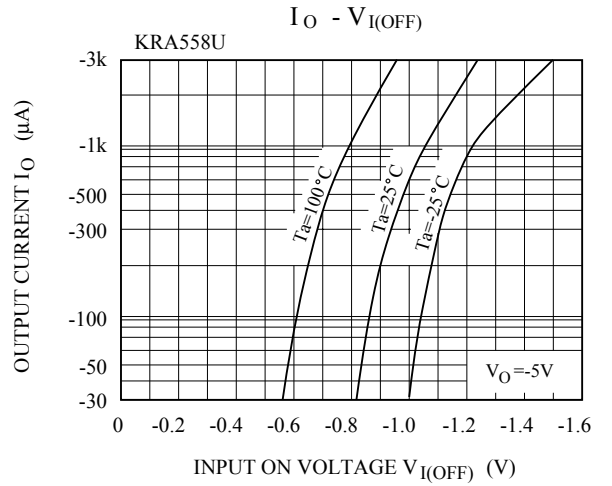
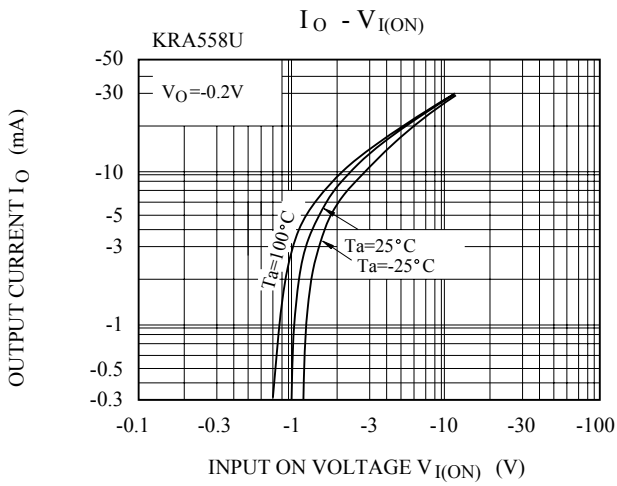
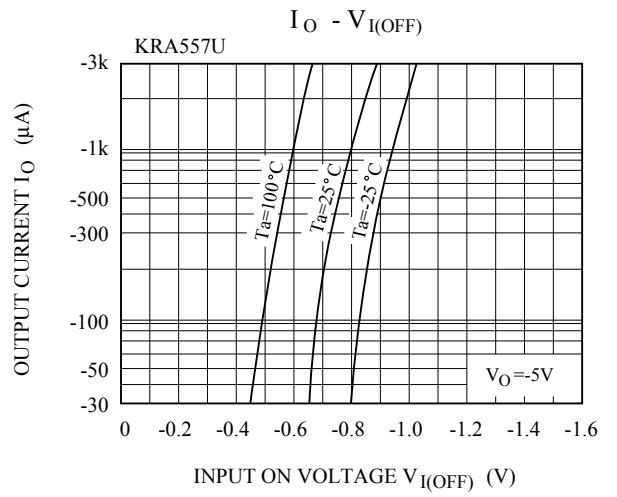
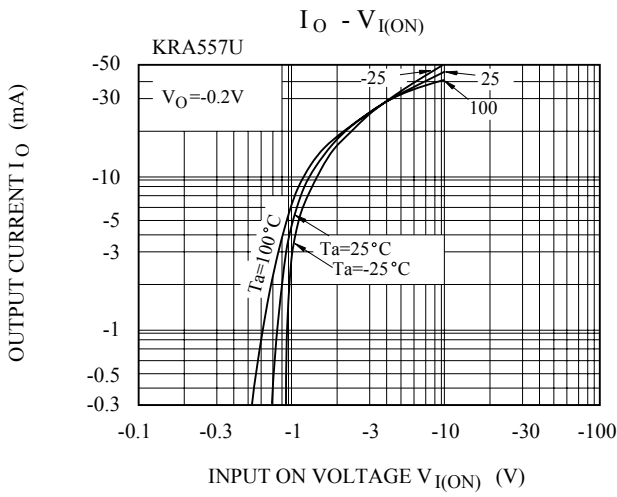
KRA557U~KRA559U

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	$V_O=-5V, V_{IN}=-5V$ $R_L=1k\Omega$	-	0.07	-	μS	
		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		-

Note : * Characteristic of Transistor Only.

KRA557U~KRA559U



KRA557U~KRA559U

