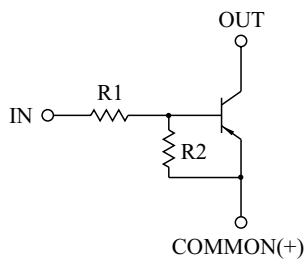


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

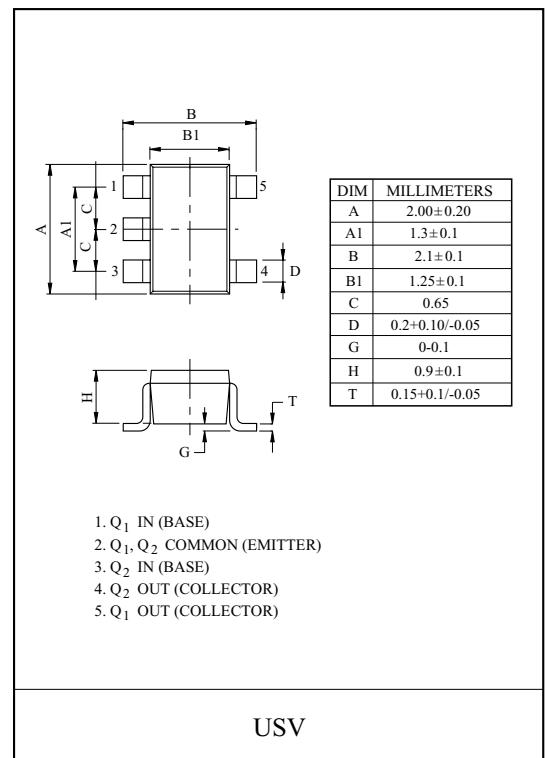
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.
- Suffix U : Qualified to AEC-Q101.
ex) KRA557U-RTK/HU

EQUIVALENT CIRCUIT

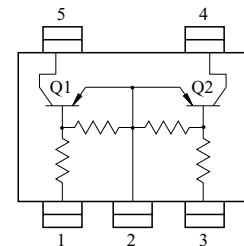


BIAS RESISTOR VALUES

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



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25 °C)

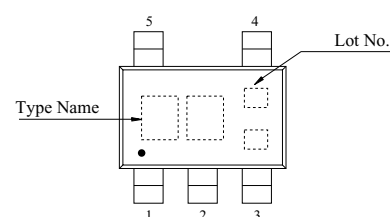
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA557U 559U	V_O	-50	V
Input Voltage	KRA557U	V_I	-30, 6	V
	KRA558U		-40, 7	
	KRA559U		-40, 15	
Output Current	KRA557U 559U	I_O	-100	mA
Power Dissipation		P_D^*	200	mW
Junction Temperature		T_j	-55~150	
Storage Temperature Range		T_{stg}	-55~150	

* Total Rating.

Marking

MARK SPEC

TYPE	KRA557U	KRA558U	KRA559U
MARK	PH	PI	PJ



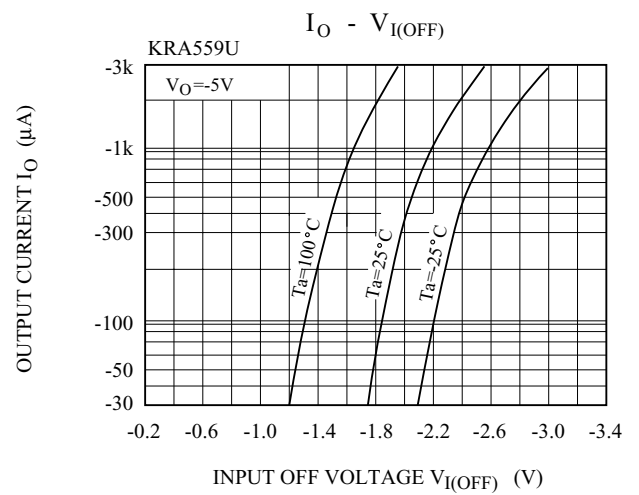
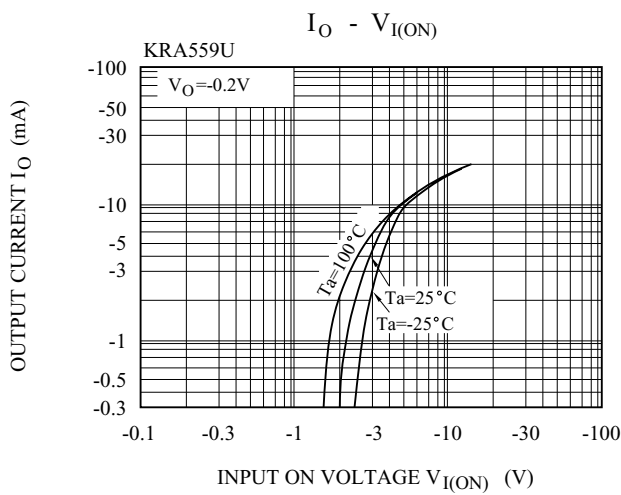
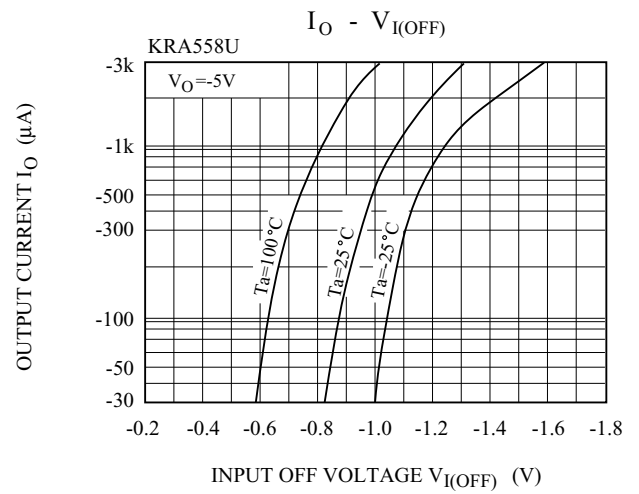
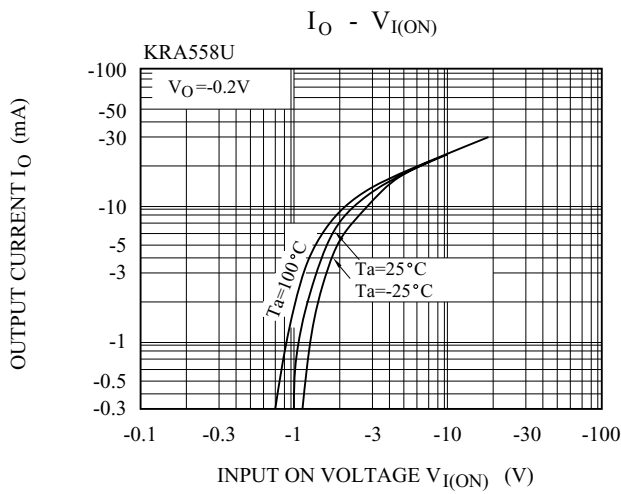
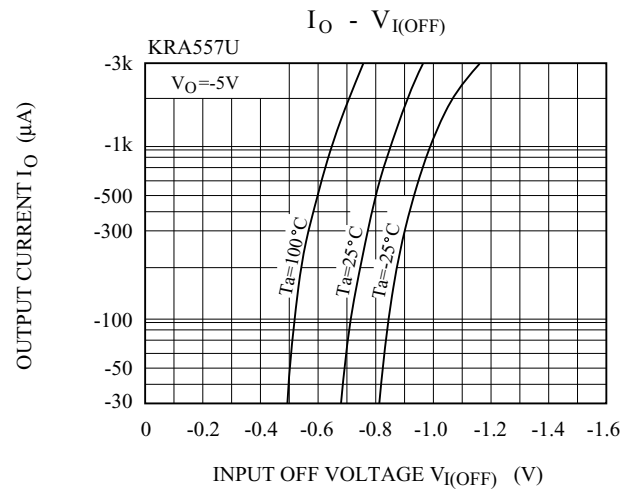
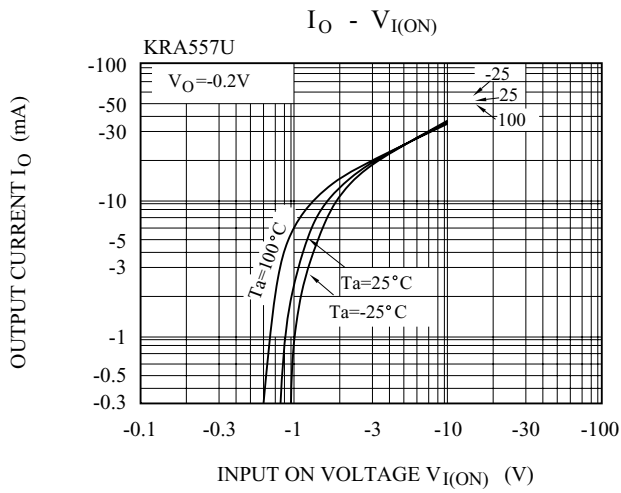
KRA557U~KRA559U

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 Votlage (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 =1kΩ	-	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	-		
Input Resistor		KRA557U	R1	-	7	10	13	kΩ	
		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

