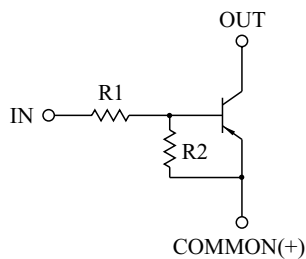


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

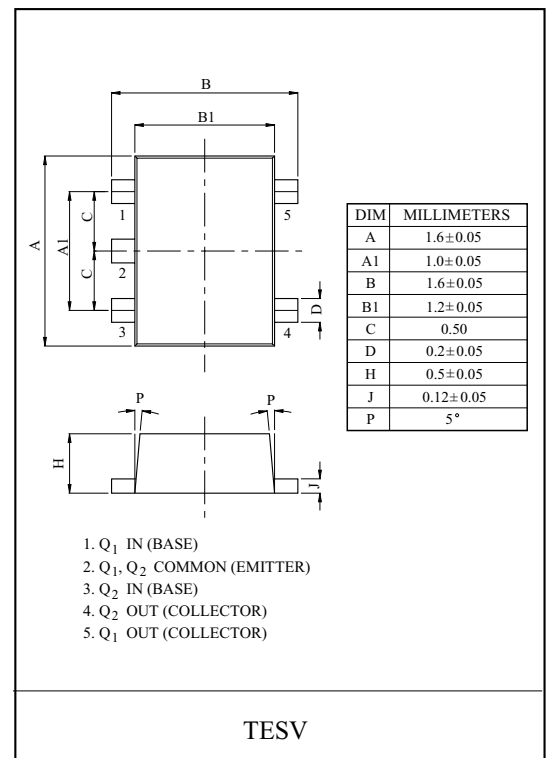
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.
- Suffix U : Qualified to AEC-Q101.
ex) KRA557E-RTK/HU

EQUIVALENT CIRCUIT

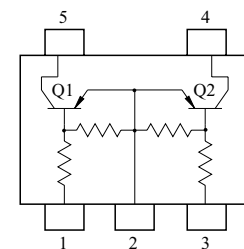


BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRA557E	10	47
KRA558E	22	47
KRA559E	47	22



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25°C)

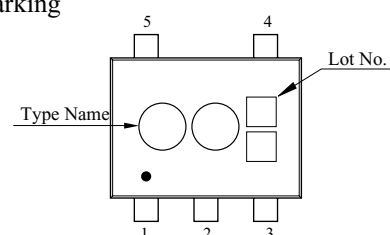
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA557E 559E	V _O	-50	V
Input Voltage	KRA557E	V _I	-30, 6	V
	KRA558E		-40, 7	
	KRA559E		-40, 15	
Output Current	KRA557E 559E	I _O	-100	mA
Power Dissipation		P _D *	200	mW
Junction Temperature		T _j	-55 150	°C
Storage Temperature Range		T _{stg}	-55 150	°C

* Total Rating.

MARK SPEC

TYPE	KRA557E	KRA558E	KRA559E
MARK	PH	PI	PJ

Marking



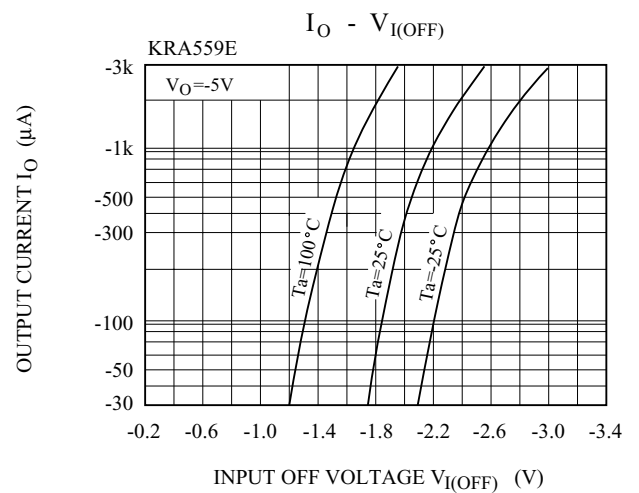
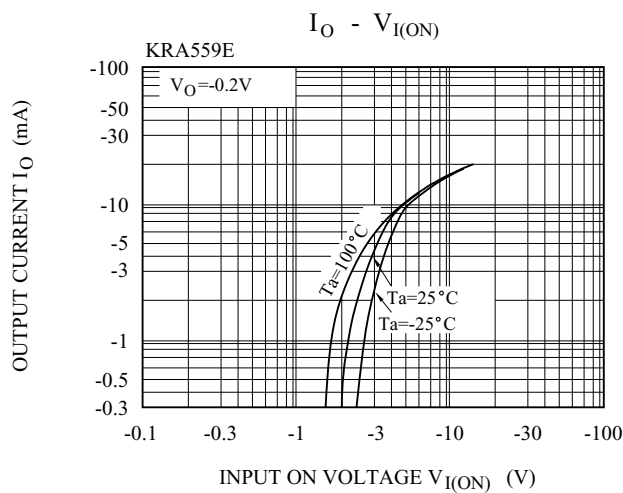
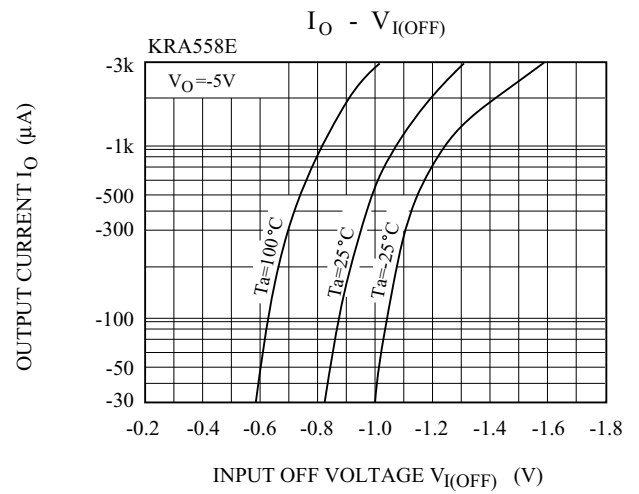
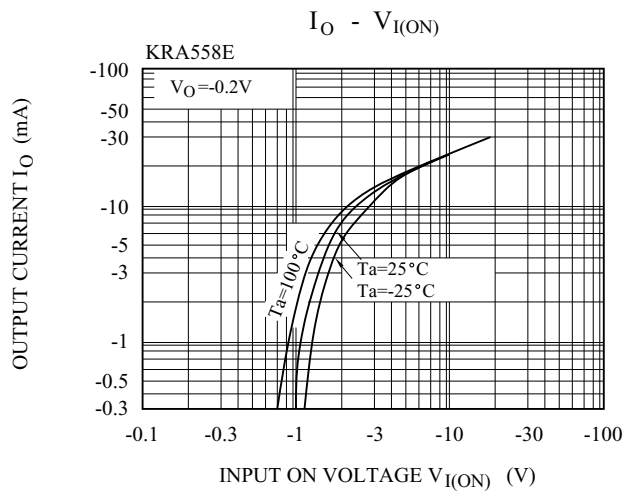
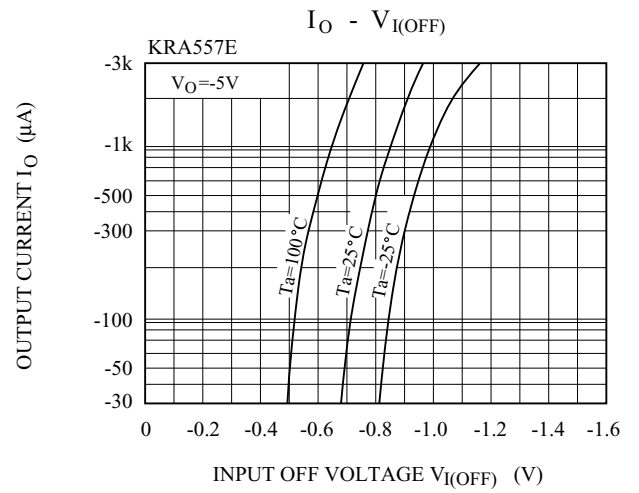
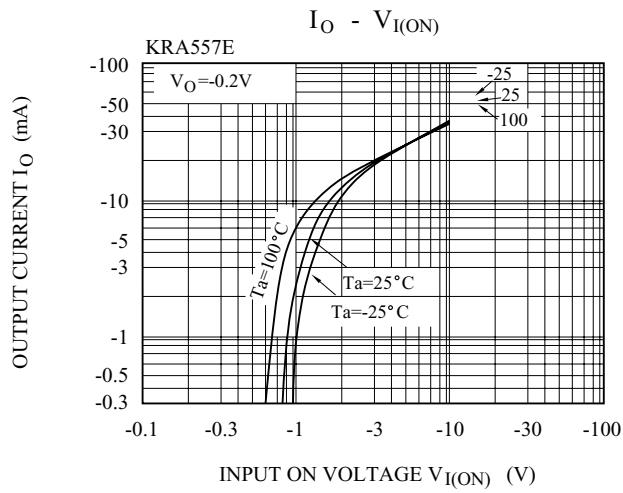
KRA557E~KRA559E

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT		
Output Cut-off Current		KRA557E 559E	I _{O(OFF)}	V _O =-50V, V _I =0	-	-	-500	nA	
DC Current Gain	KRA557E	G _I	V _O =-5V, I _O =-10mA	80	150	-			
	KRA558E			80	150	-			
	KRA559E			70	140	-			
Output Voltage		KRA557E 559E	V _{O(ON)}	I _O =-10mA, I _I =-0.5mA	-	-0.1	-0.3	V	
Input Voltage (ON)	KRA557E	V _{I(ON)}	V _O =-0.2V, I _O =-5mA	-	-1.2	-1.8	V		
	KRA558E			-	-1.8	-2.6			
	KRA559E			-	-3.0	-5.8			
Input Votlage (OFF)	KRA557E	V _{I(OFF)}	V _O =-5V, I _O =-0.1mA	-0.5	-0.75	-	V		
	KRA558E			-0.6	-0.88	-			
	KRA559E			-1.5	-1.82	-			
Transition Frequency		KRA557E 559E	f _T *	V _O =-10V, I _O =-5mA	-	200	-	MHz	
Input Current		KRA557E	I _I	V _I =-5V	-	-	-0.88	mA	
		KRA558E			-	-	-0.36		
		KRA559E			-	-	-0.16		
Switching Time	Rise Time	KRA557E	t _r	V _O =-5V, V _{IN} =-5V R _L =1kΩ	-	0.07	-	μs	
		KRA558E			-	0.20	-		
		KRA559E			-	0.38	-		
	Storage Time	KRA557E			t _{stg}	-	1.1		-
		KRA558E				-	1.3		-
		KRA559E				-	0.7		-
	Fall Time	KRA557E			t _f	-	0.35		-
		KRA558E				-	0.4		-
		KRA559E				-	0.48		-
Input Resistor		KRA557E	R1	-	7	10	13	kΩ	
		KRA558E			15.4	22	28.6		
		KRA559E			32.9	47	61.1		
Resistor Ratio		KRA557E	R2/R1	-	3.7	4.7	5.7		
		KRA558E			1.7	2.1	2.6		
		KRA559E			0.37	0.47	0.57		

Note : * Characteristic of Transistor Only.

KRA557E~KRA559E



KRA557E~KRA559E

