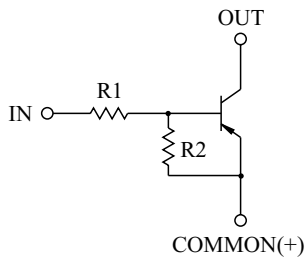


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

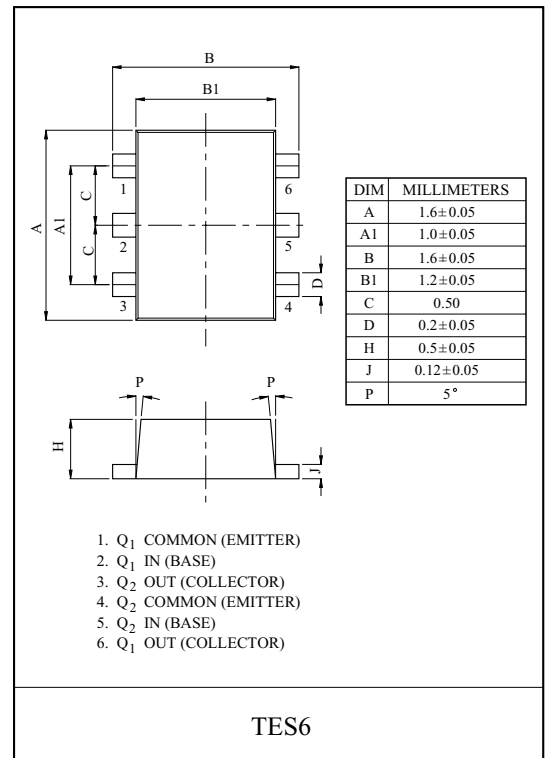
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

### EQUIVALENT CIRCUIT

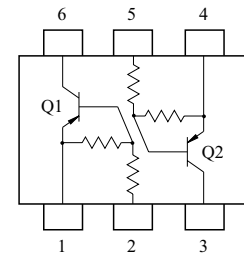


### BIAS RESISTOR VALUES

TYPE NO.	R1(k )	R2(k )
KRA751E	4.7	4.7
KRA752E	10	10
KRA753E	22	22
KRA754E	47	47
KRA755E	2.2	47
KRA756E	4.7	47



### EQUIVALENT CIRCUIT (TOP VIEW)



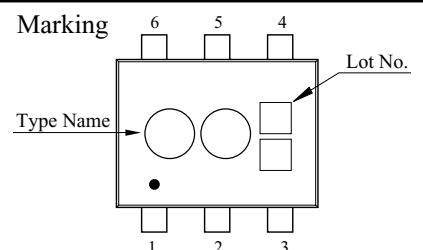
### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA751E 756E	$V_O$	-50	V
Input Voltage	KRA751E	$V_I$	-20, 10	V
	KRA752E		-30, 10	
	KRA753E		-40, 10	
	KRA754E		-40, 10	
	KRA755E		-12, 5	
	KRA756E		-20, 5	
Output Current	KRA751E 756E	$I_O$	-100	mA
Power Dissipation		$P_D^*$	200	mW
Junction Temperature		$T_j$	-55~150	
Storage Temperature Range		$T_{stg}$	-55~150	

\* Total Rating.

### MARK SPEC

TYPE	KRA751E	KRA752E	KRA753E	KRA754E	KRA755E	KRA756E
MARK	PA	PB	PC	PD	PE	PF



# KRA751E~KRA756E

## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA751E 756E	$I_{O(OFF)}$	$V_O=-50V, V_I=0$	-	-	-500	nA
DC Current Gain	KRA751E	$G_I$	$V_O=-5V, I_O=-10mA$	30	55	-	
	KRA752E			50	80	-	
	KRA753E			70	120	-	
	KRA754E			80	200	-	
	KRA755E			80	200	-	
	KRA756E			80	200	-	
Output Voltage	KRA751E 756E	$V_{O(ON)}$	$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	KRA751E	$V_{I(ON)}$	$V_O=-0.2V, I_O=-5mA$	-	-1.5	-2.0	V
	KRA752E			-	-1.8	-2.4	
	KRA753E			-	-2.1	-3.0	
	KRA754E			-	-2.8	-5.0	
	KRA755E			-	-0.8	-1.1	
	KRA756E			-	-0.9	-1.3	
Input Voltage (OFF)	KRA751E 754E	$V_{I(OFF)}$	$V_O=-5V, I_O=-0.1mA$	-1.0	-1.2	-	V
	KRA755E 756E			-0.5	-0.65	-	
Transition Frequency	KRA751E 756E	$f_T^*$	$V_O=-10V, I_O=-5mA$	-	200	-	MHz
Input Current	KRA751E	$I_I$	$V_I=-5V$	-	-	-1.8	mA
	KRA752E			-	-	-0.88	
	KRA753E			-	-	-0.36	
	KRA754E			-	-	-0.18	
	KRA755E			-	-	-3.6	
	KRA756E			-	-	-1.8	
Input Resistor	KRA751E	R1	-	3.29	4.7	6.11	k
	KRA752E			7	10	13	
	KRA753E			15.4	22	28.6	
	KRA754E			32.9	47	61.1	
	KRA755E			1.54	2.2	2.86	
	KRA756E			3.29	4.7	6.11	
Resistor Ratio	KRA751E 754E	R2/R1	-	0.8	1.0	1.2	
	KRA755E			17	21	26	
	KRA756E			8	10	12	

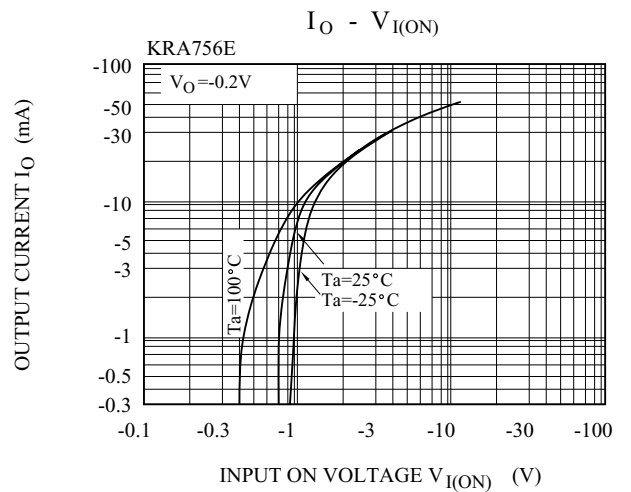
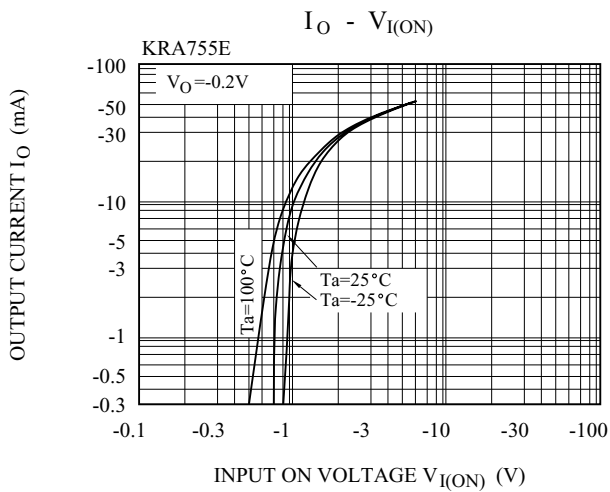
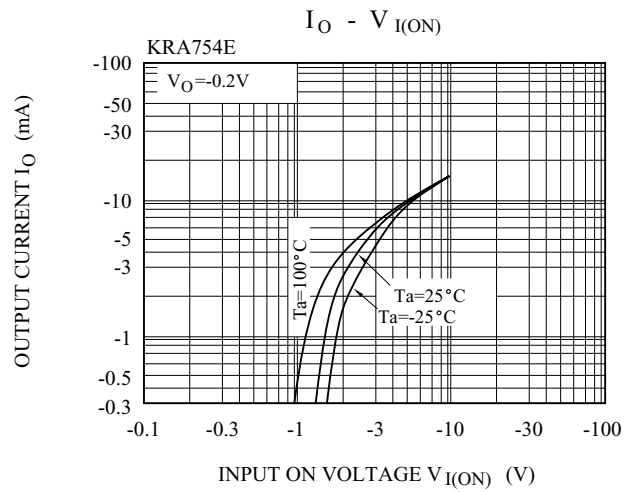
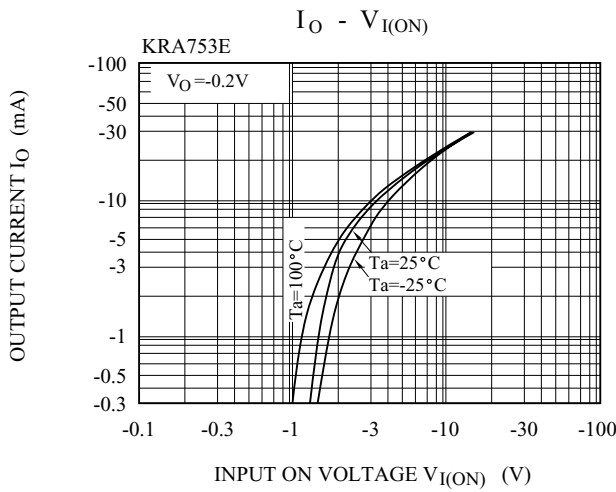
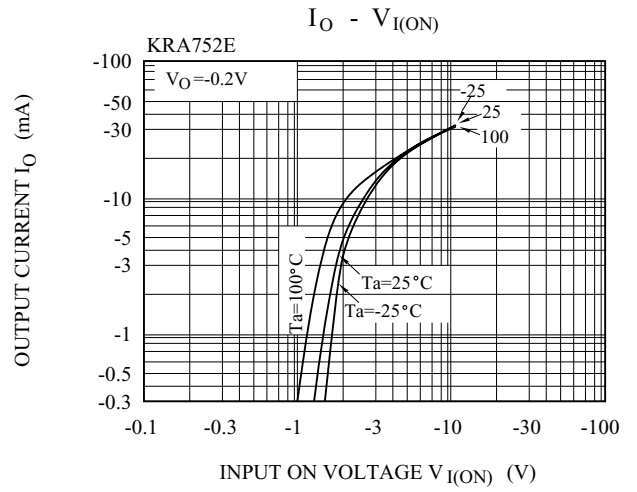
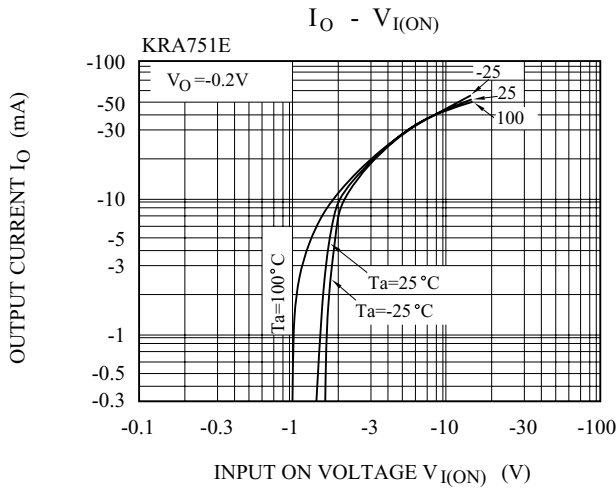
Note : \* Characteristic of Transistor Only.

# KRA751E~KRA756E

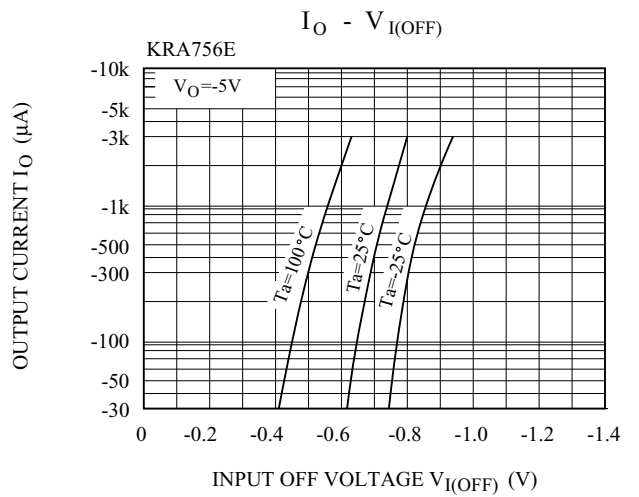
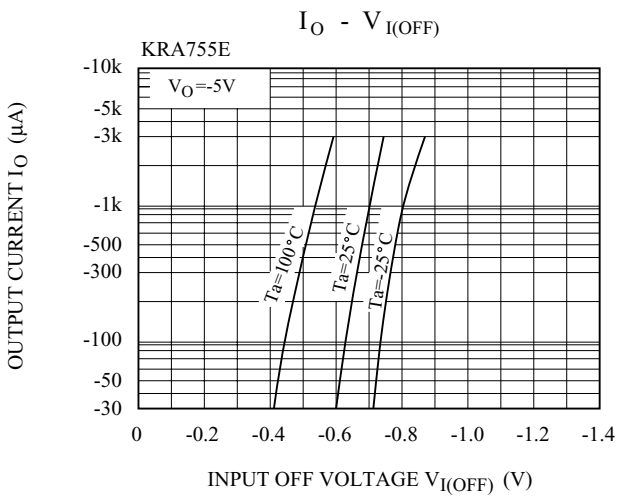
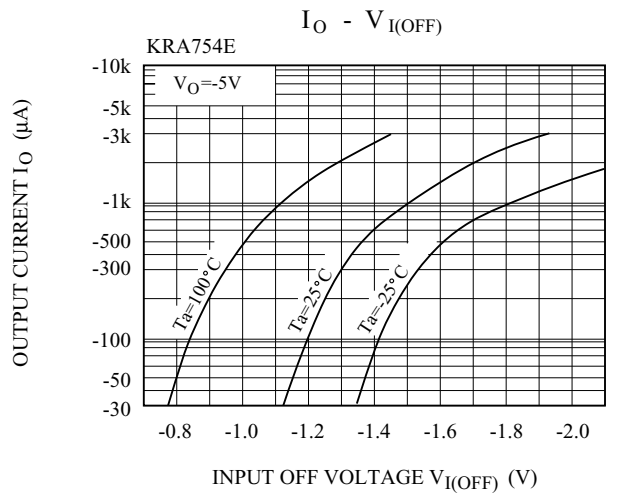
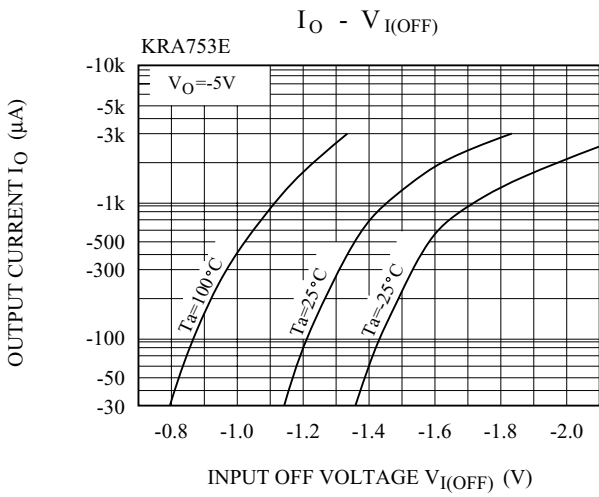
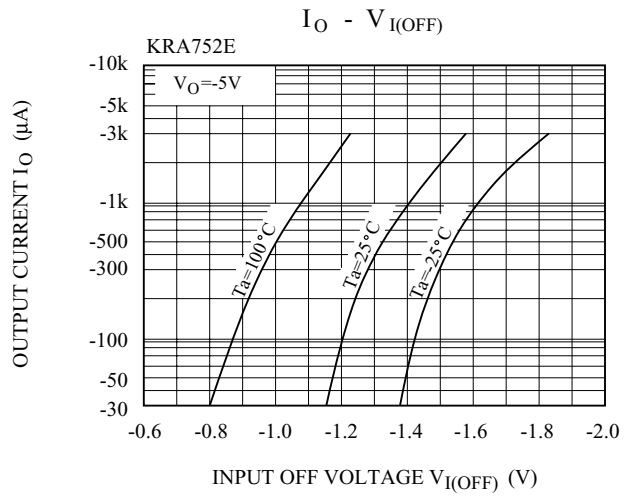
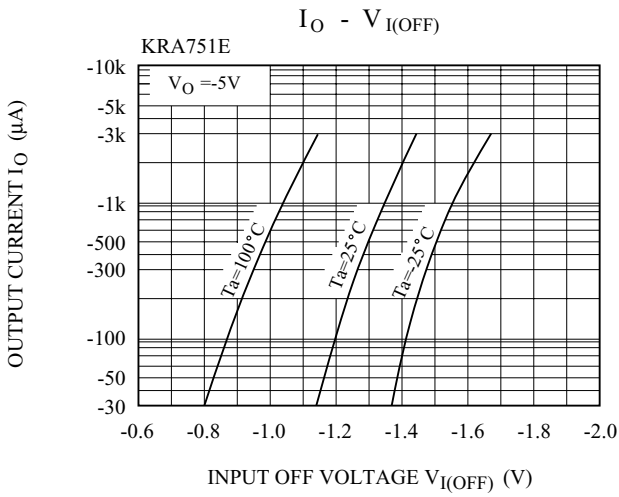
## ELECTRICAL CHARACTERISTICS (Ta=25 )

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA751E	V <sub>O</sub> =-5V V <sub>IN</sub> =-5V R <sub>L</sub> =1k	-	0.07	-	μs
		KRA752E		-	0.06	-	
		KRA753E		-	0.2	-	
		KRA754E		-	0.24	-	
		KRA755E		-	0.02	-	
		KRA756E		-	0.07	-	
	Storage Time	KRA751E		-	1.1	-	
		KRA752E		-	1.1	-	
		KRA753E		-	1.1	-	
		KRA754E		-	1.1	-	
		KRA755E		-	1.1	-	
		KRA756E		-	1.1	-	
	Fall Time	KRA751E		-	0.15	-	
		KRA752E		-	0.24	-	
		KRA753E		-	0.38	-	
		KRA754E		-	0.63	-	
		KRA755E		-	0.1	-	
		KRA756E		-	0.2	-	

# KRA751E~KRA756E



# KRA751E~KRA756E



# KRA751E~KRA756E

