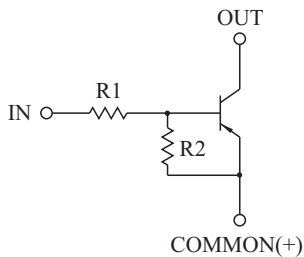


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

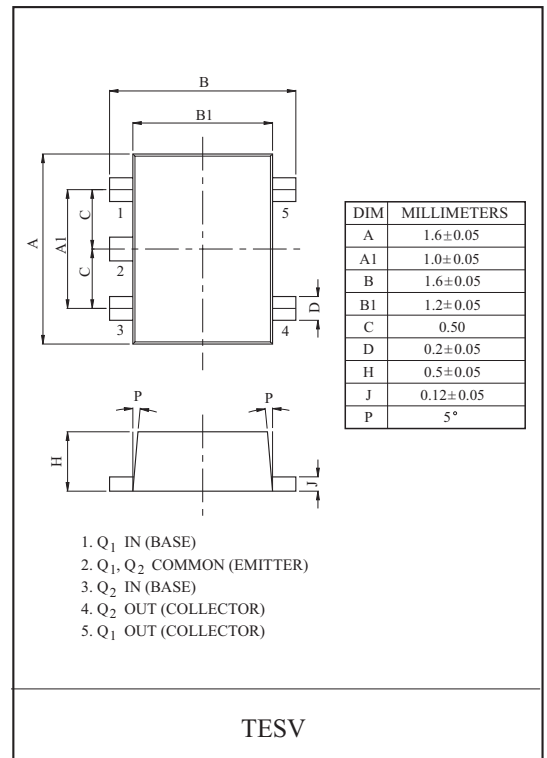
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

### EQUIVALENT CIRCUIT

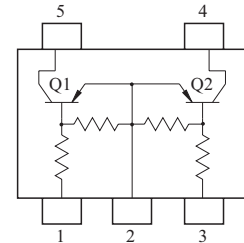


### BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRA551E	4.7	4.7
KRA552E	10	10
KRA553E	22	22
KRA554E	47	47
KRA555E	2.2	47
KRA556E	4.7	47



### EQUIVALENT CIRCUIT (TOP VIEW)



### MAXIMUM RATING (Ta=25 °C)

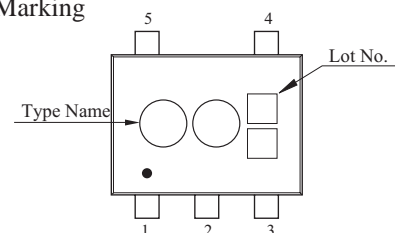
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA551E~556E	$V_O$	-50	V
Input Voltage	KRA551E	$V_I$	-20, 10	V
	KRA552E		-30, 10	
	KRA553E		-40, 10	
	KRA554E		-40, 10	
	KRA555E		-12, 5	
	KRA556E		-20, 5	
Output Current	KRA551E~556E	$I_O$	-100	mA
Power Dissipation		$P_D^*$	200	mW
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-55~150	°C

\* Total Rating.

### MARK SPEC

TYPE	KRA551E	KRA552E	KRA553E	KRA554E	KRA555E	KRA556E
MARK	PA	PB	PC	PD	PE	PF

### Marking



# KRA551E~KRA556E

## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA551E ~556E	$I_{O(OFF)}$	$V_O=-50V, V_I=0$	-	-	-500	nA
DC Current Gain	KRA551E	$G_I$	$V_O=-5V, I_O=-10mA$	30	55	-	
	KRA552E			50	80	-	
	KRA553E			70	120	-	
	KRA554E			80	200	-	
	KRA555E			80	200	-	
	KRA556E			80	200	-	
Output Voltage	KRA551E ~556E	$V_{O(ON)}$	$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	KRA551E	$V_{I(ON)}$	$V_O=-0.2V, I_O=-5mA$	-	-1.5	-2.0	V
	KRA552E			-	-1.8	-2.4	
	KRA553E			-	-2.1	-3.0	
	KRA554E			-	-2.8	-5.0	
	KRA555E			-	-0.8	-1.1	
	KRA556E			-	-0.9	-1.3	
Input Voltage (OFF)	KRA551E ~554E	$V_{I(OFF)}$	$V_O=-5V, I_O=-0.1mA$	-1.0	-1.2	-	V
	KRA555E ~556E			-0.5	-0.65	-	
Transition Frequency	KRA551E ~556E	$f_T^*$	$V_O=-10V, I_O=-5mA$	-	200	-	MHz
Input Current	KRA551E	$I_I$	$V_I=-5V$	-	-	-1.8	mA
	KRA552E			-	-	-0.88	
	KRA553E			-	-	-0.36	
	KRA554E			-	-	-0.18	
	KRA555E			-	-	-3.6	
	KRA556E			-	-	-1.8	

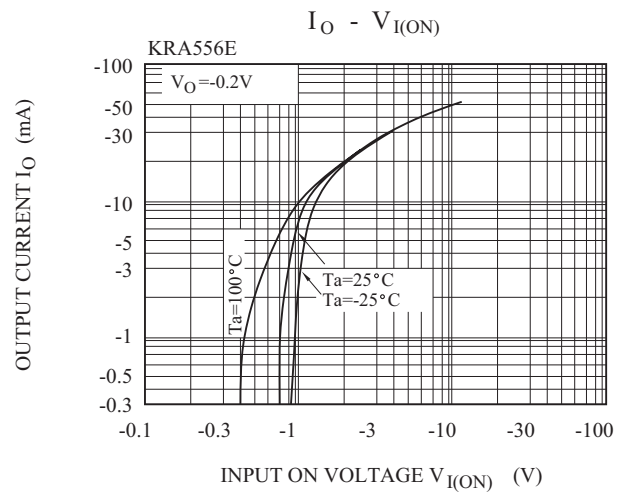
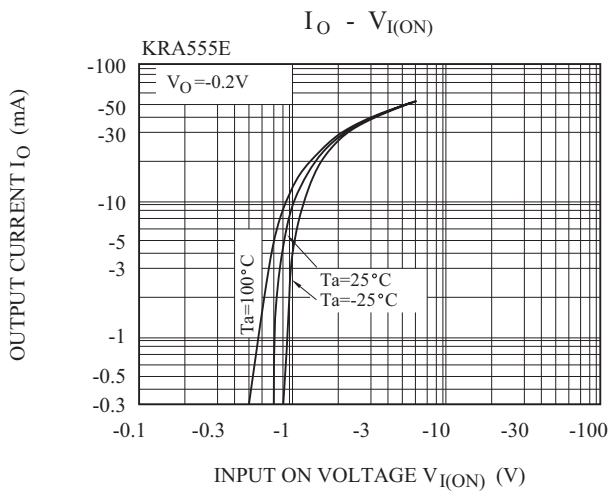
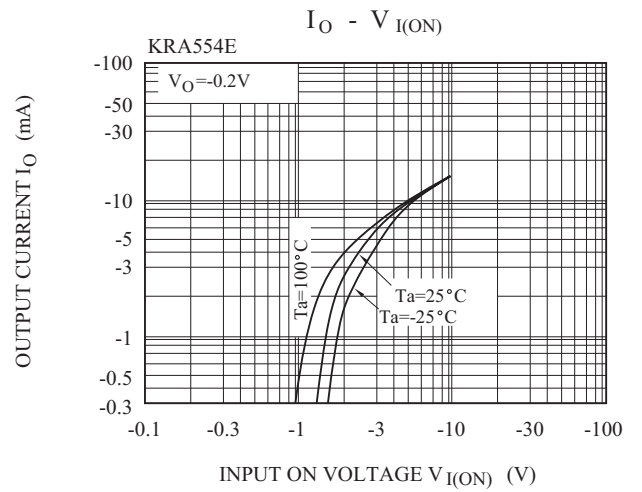
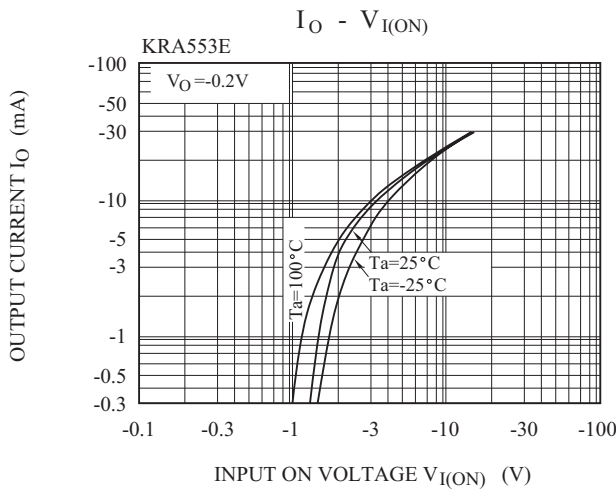
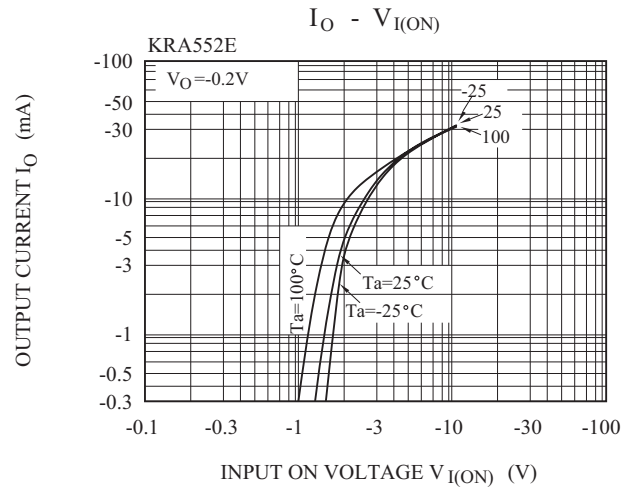
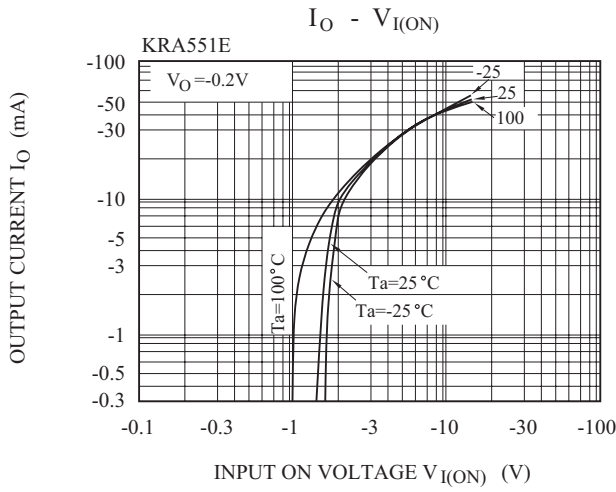
Note : \* Characteristic of Transistor Only.

# KRA551E~KRA556E

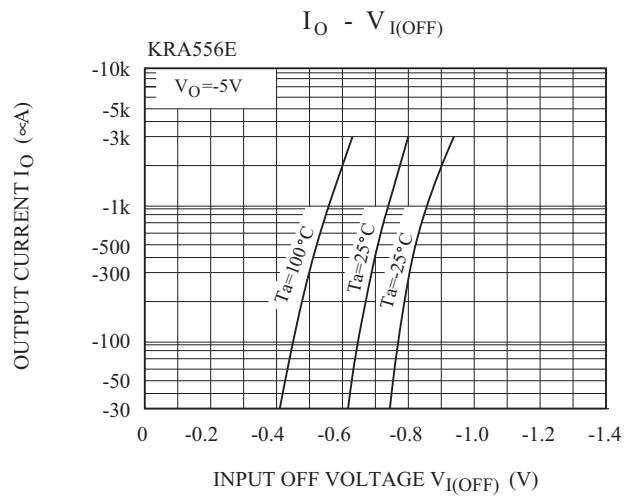
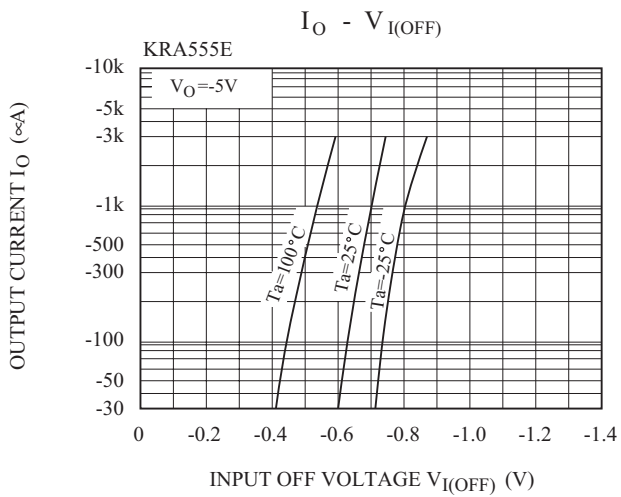
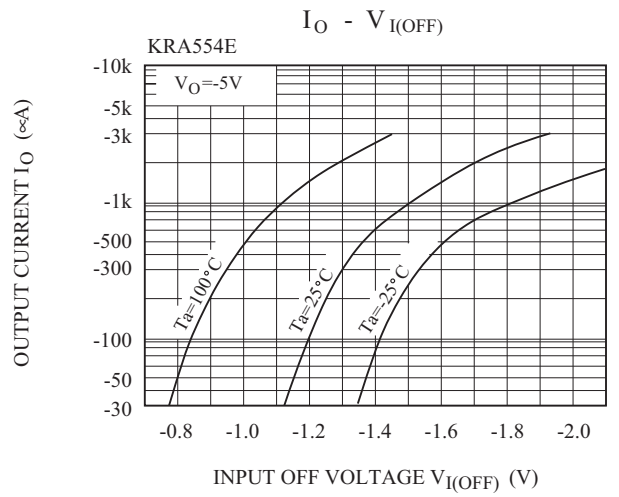
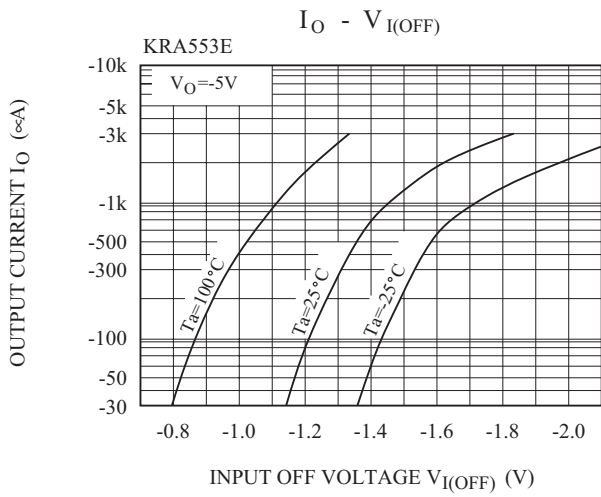
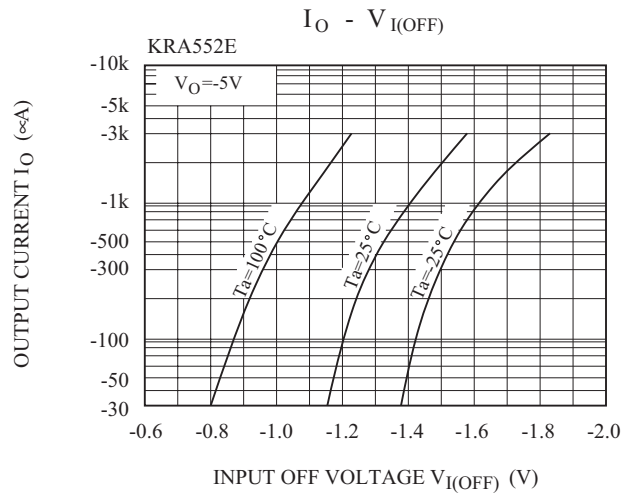
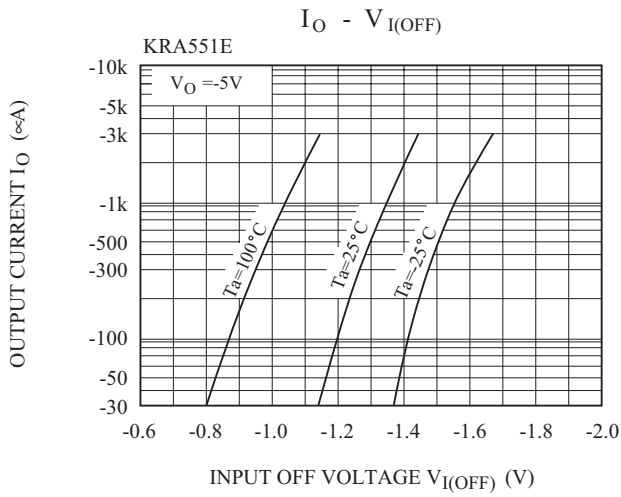
## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRA551E	$V_O = -5V$ $V_{IN} = -5V$ $R_L = 1k \Omega$	-	0.07	-	$\mu S$
		KRA552E		-	0.06	-	
		KRA553E		-	0.2	-	
		KRA554E		-	0.24	-	
		KRA555E		-	0.02	-	
		KRA556E		-	0.07	-	
	Storage Time	KRA551E		-	1.1	-	
		KRA552E		-	1.1	-	
		KRA553E		-	1.1	-	
		KRA554E		-	1.1	-	
		KRA555E		-	1.1	-	
		KRA556E		-	1.1	-	
	Fall Time	KRA551E		-	0.15	-	
		KRA552E		-	0.24	-	
		KRA553E		-	0.38	-	
		KRA554E		-	0.63	-	
		KRA555E		-	0.1	-	
		KRA556E		-	0.2	-	

# KRA551E~KRA556E



# KRA551E~KRA556E



# KRA551E~KRA556E

