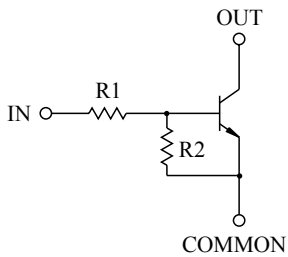


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

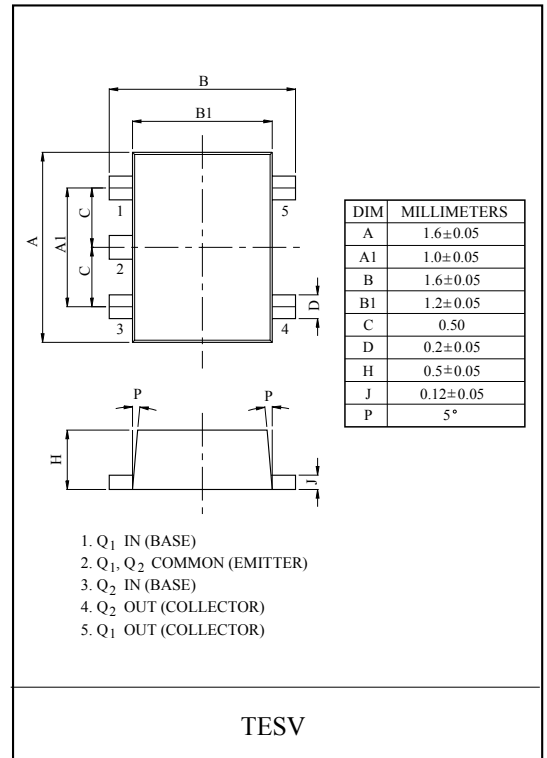
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

### EQUIVALENT CIRCUIT

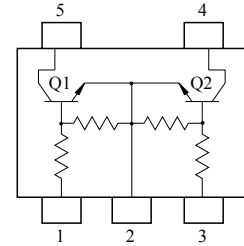


### BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRC651E	4.7	4.7
KRC652E	10	10
KRC653E	22	22
KRC654E	47	47
KRC655E	2.2	47
KRC656E	4.7	47



### EQUIVALENT CIRCUIT (TOP VIEW)



### MAXIMUM RATING (Ta=25°C)

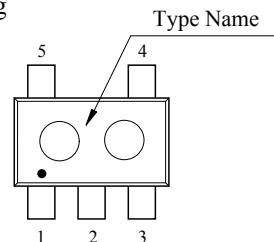
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC651E~656E	$V_O$	50	V
Input Voltage	KRC651E	$V_I$	20, -10	V
	KRC652E		30, -10	
	KRC653E		40, -10	
	KRC654E		40, -10	
	KRC655E		12, -5	
	KRC656E		20, -5	
Output Current	KRC651E~656E	$I_O$	100	mA
Power Dissipation		$P_D^*$	200	mW
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-55~150	°C

\* Total Rating.

### MARK SPEC

TYPE	KRC651E	KRC652E	KRC653E	KRC654E	KRC655E	KRC656E
MARK	NA	NB	NC	ND	NE	NF

### Marking



# KRC651E~KRC656E

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC651E ~ 656E	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC651E	$G_I$	$V_O=5V, I_O=10mA$	30	55	-	
	KRC652E			50	80	-	
	KRC653E			70	120	-	
	KRC654E			80	200	-	
	KRC655E			80	200	-	
	KRC656E			80	200	-	
Output Voltage	KRC651E ~ 656E	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC651E	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.5	2.0	V
	KRC652E			-	1.8	2.4	
	KRC653E			-	2.1	3.0	
	KRC654E			-	2.8	5.0	
	KRC655E			-	0.8	1.1	
	KRC656E			-	0.9	1.3	
Input Voltage (OFF)	KRC651E ~ 654E	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	1.0	1.2	-	V
	KRC655E ~ 656E			0.5	0.65	-	
Transition Frequency	KRC651E ~ 656E	$f_T^*$	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current	KRC651E	$I_I$	$V_I=5V$	-	-	1.8	mA
	KRC652E			-	-	0.88	
	KRC653E			-	-	0.36	
	KRC654E			-	-	0.18	
	KRC655E			-	-	3.6	
	KRC656E			-	-	1.8	

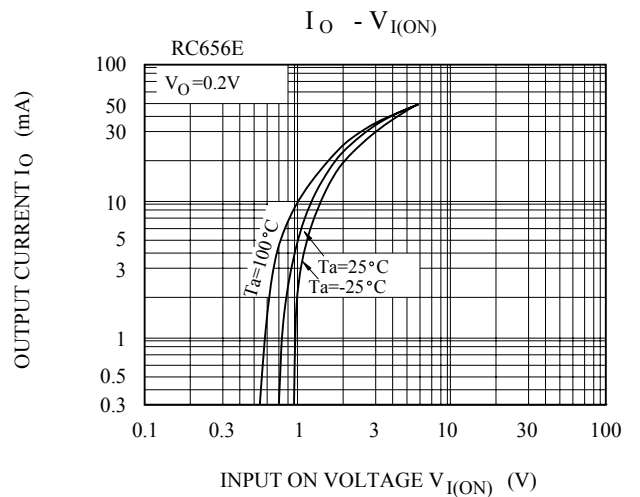
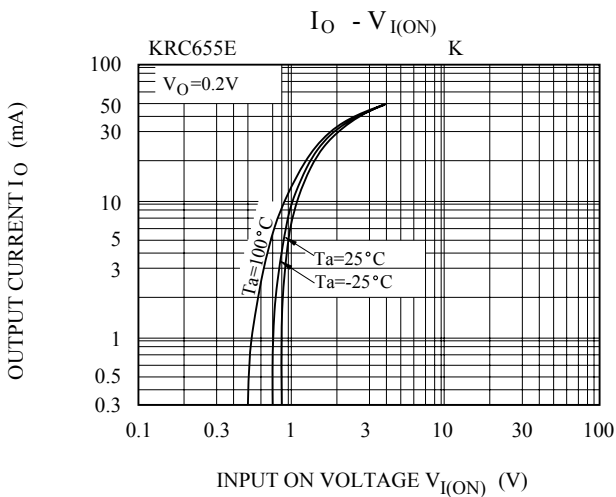
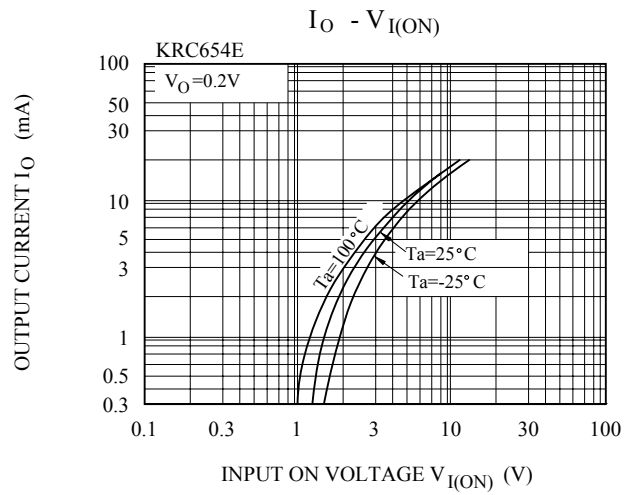
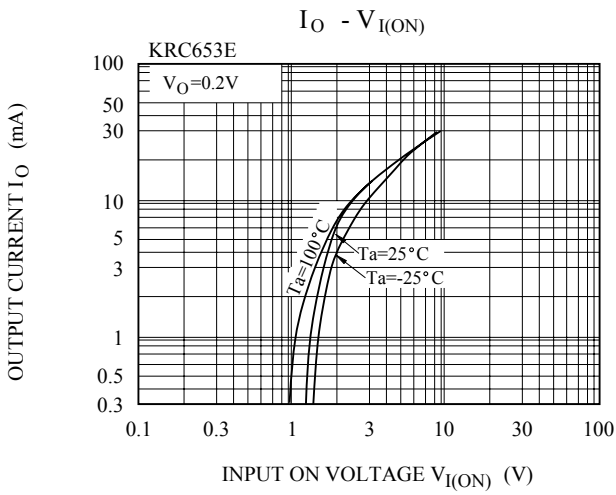
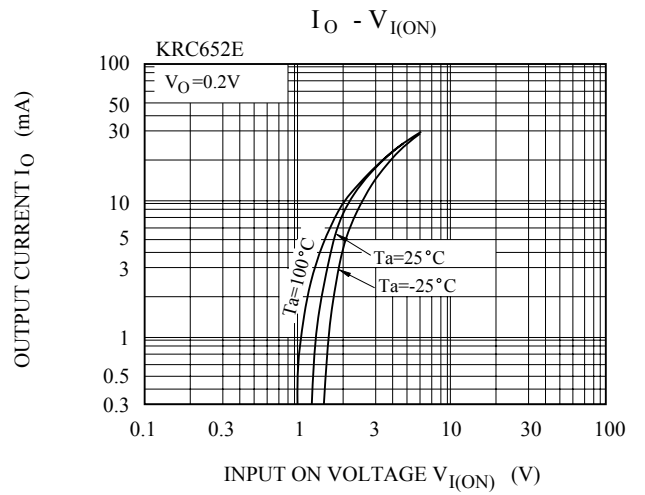
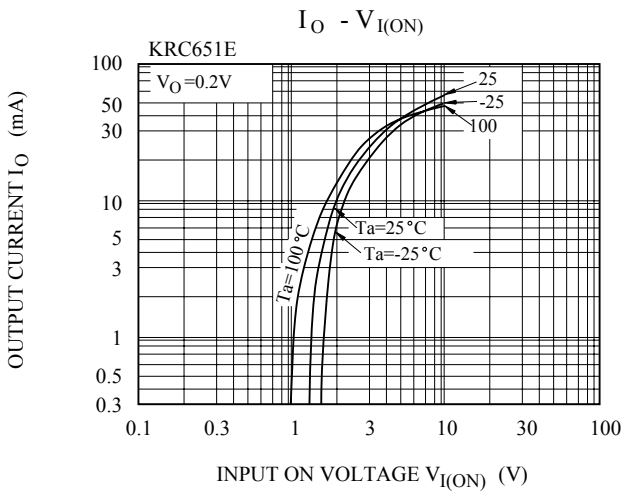
Note : \* Characteristic of Transistor Only.

# KRC651E~KRC656E

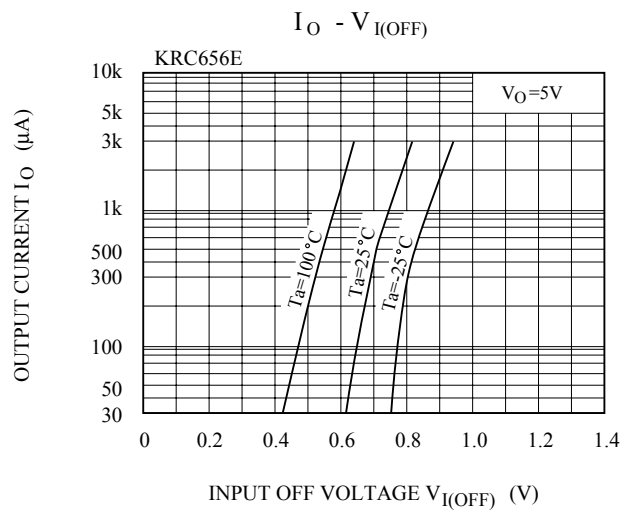
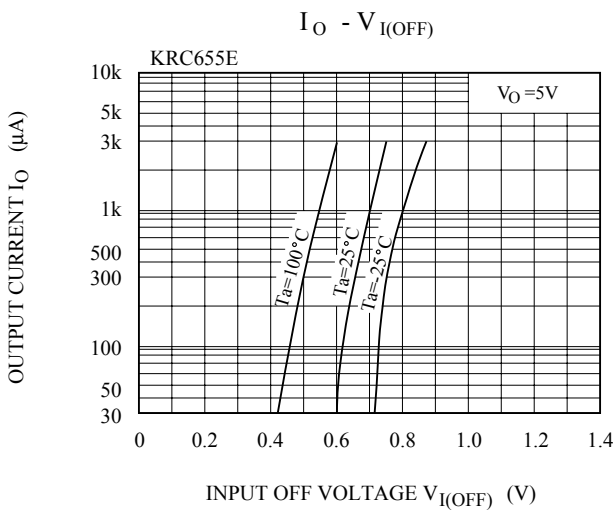
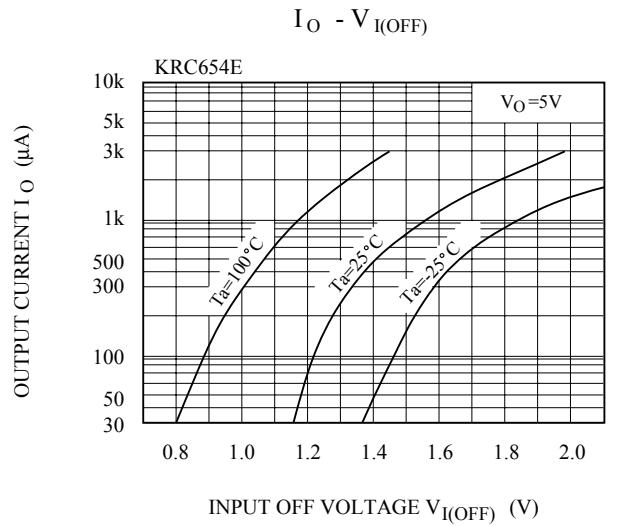
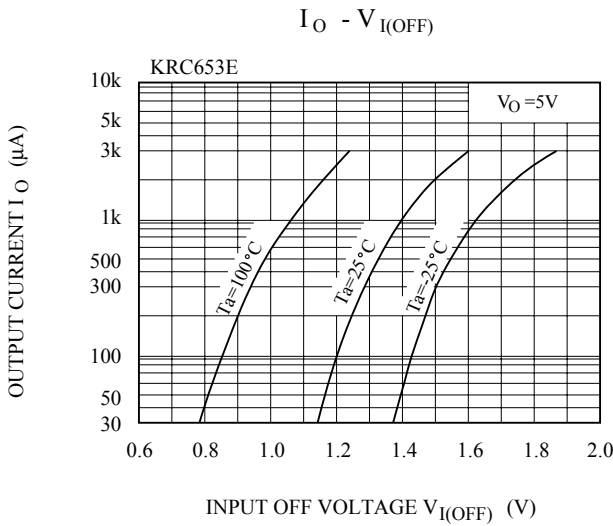
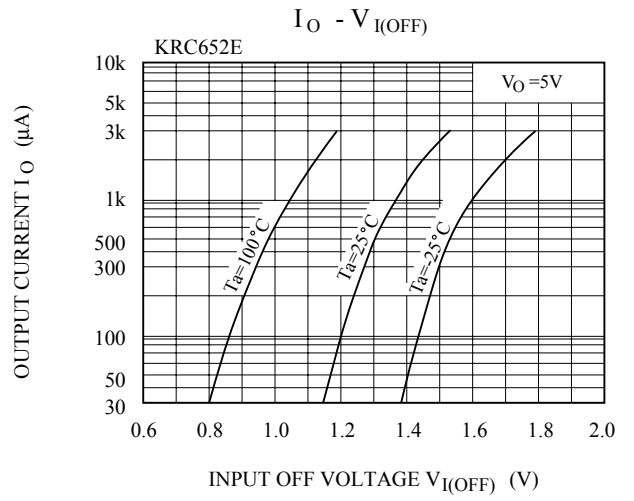
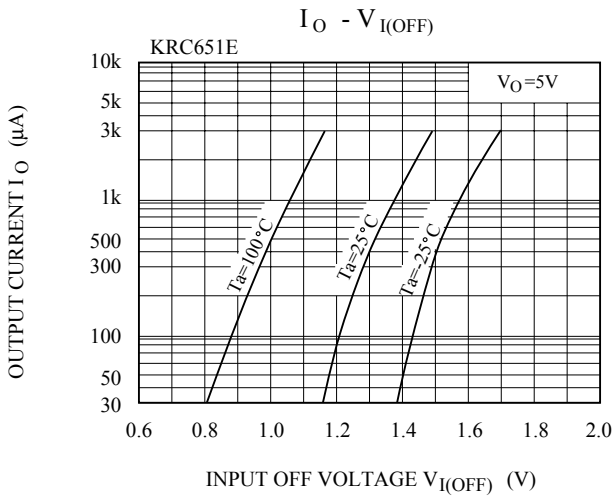
## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRC651E	V <sub>O</sub> =5V V <sub>IN</sub> =5V R <sub>L</sub> =1kΩ	-	0.03	-	μS
		KRC652E		-	0.05	-	
		KRC653E		-	0.12	-	
		KRC654E		-	0.22	-	
		KRC655E		-	0.01	-	
		KRC656E		-	0.03	-	
	Storage Time	KRC651E		-	2.0	-	
		KRC652E		-	2.0	-	
		KRC653E		-	2.0	-	
		KRC654E		-	2.0	-	
		KRC655E		-	2.0	-	
		KRC656E		-	2.0	-	
	Fall Time	KRC651E		-	0.12	-	
		KRC652E		-	0.36	-	
		KRC653E		-	0.35	-	
		KRC654E		-	0.6	-	
		KRC655E		-	0.1	-	
		KRC656E		-	0.19	-	

# KRC651E~KRC656E



# KRC651E~KRC656E



# KRC651E~KRC656E

