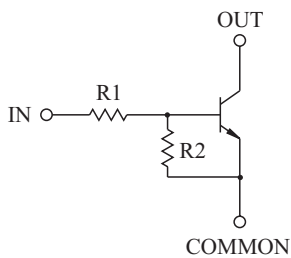


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

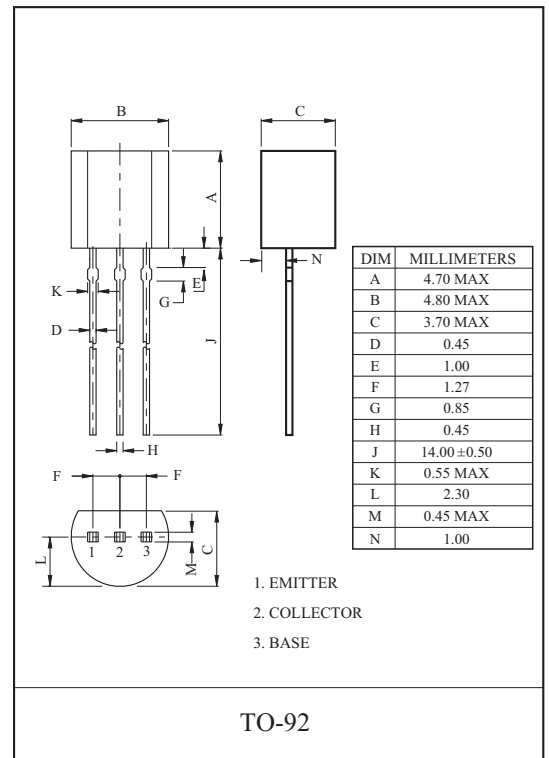
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRC101	4.7	4.7
KRC102	10	10
KRC103	22	22
KRC104	47	47
KRC105	2.2	47
KRC106	4.7	47



MAXIMUM RATING (Ta=25 $^{\circ}$ C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC101 106	V_O	50	V
Input Voltage	KRC101	V_I	20, -10	V
	KRC102		30, -10	
	KRC103		40, -10	
	KRC104		40, -10	
	KRC105		12, -5	
	KRC106		20, -5	
Output Current	KRC101 106	I_O	100	mA
Power Dissipation		P_D	625	mW
Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 150	

KRC101~KRC106

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC101 106	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC101	G_I	$V_O=5V, I_O=10mA$	30	55	-	
	KRC102			50	80	-	
	KRC103			70	120	-	
	KRC104			80	200	-	
	KRC105			80	200	-	
	KRC106			80	200	-	
Output Voltage	KRC101 106	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC101	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.5	2.0	V
	KRC102			-	1.8	2.4	
	KRC103			-	2.1	3.0	
	KRC104			-	2.8	5.0	
	KRC105			-	0.8	1.1	
	KRC106			-	0.9	1.3	
Input Voltage (OFF)	KRC101 104	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	1.0	1.2	-	V
	KRC105 106			0.5	0.65	-	
Transition Frequency	KRC101 106	f_T^*	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current	KRC101	I_I	$V_I=5V$	-	-	1.8	mA
	KRC102			-	-	0.88	
	KRC103			-	-	0.36	
	KRC104			-	-	0.18	
	KRC105			-	-	3.6	
	KRC106			-	-	1.8	
Input Resistor	KRC101	R1	-	3.29	4.7	6.11	k
	KRC102			7	10	13	
	KRC103			15.4	22	28.6	
	KRC104			32.9	47	61.1	
	KRC105			1.54	2.2	2.86	
	KRC106			3.29	4.7	6.11	
Resistor Ratio	KRC101 104	R2/R1	-	0.8	1.0	1.2	
	KRC105			17	21	26	
	KRC106			8	10	12	

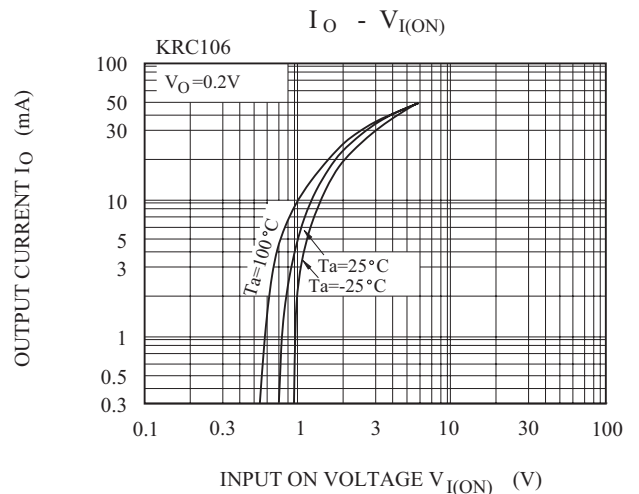
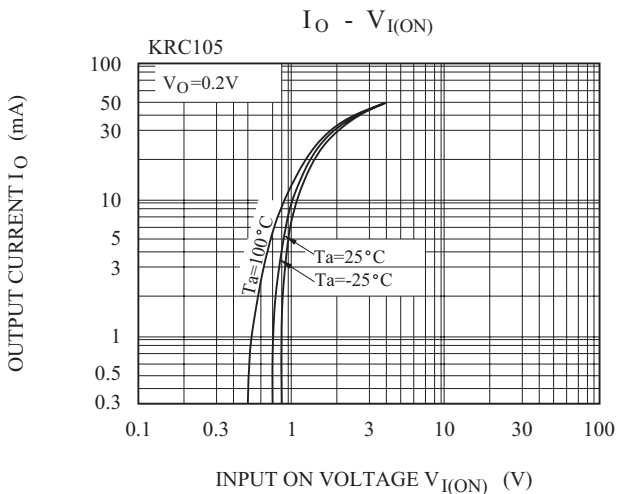
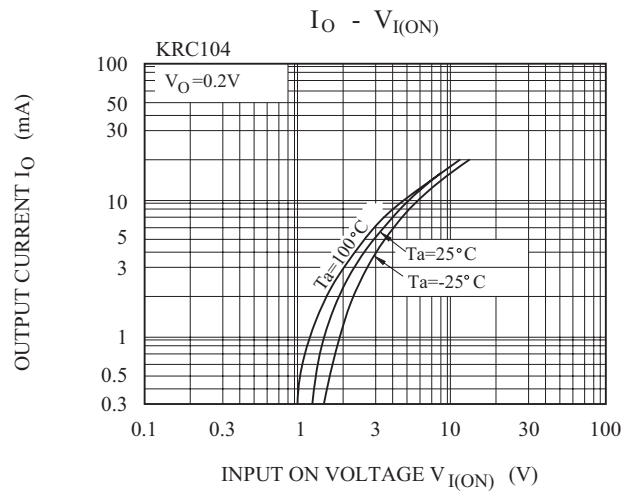
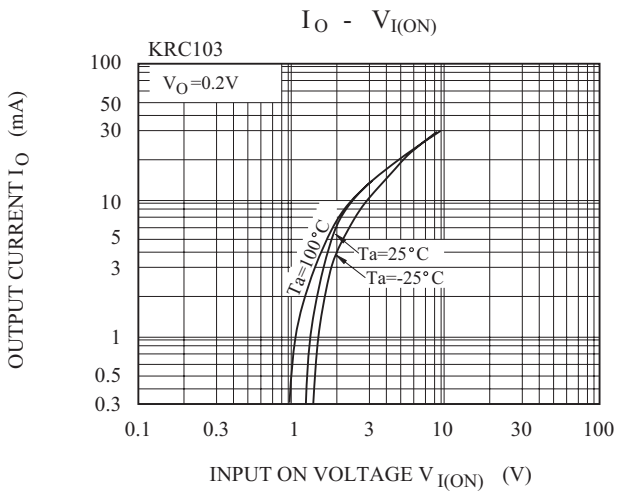
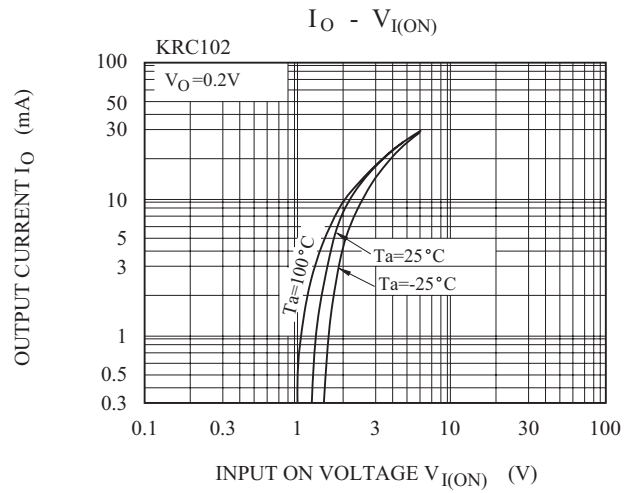
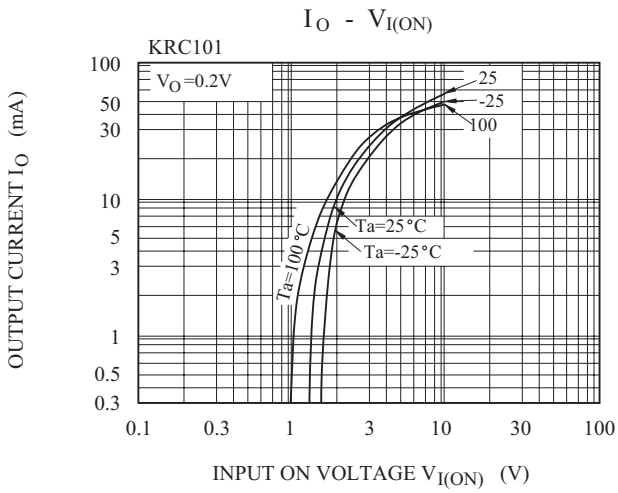
Note : * Characteristic of Transistor Only.

KRC101~KRC106

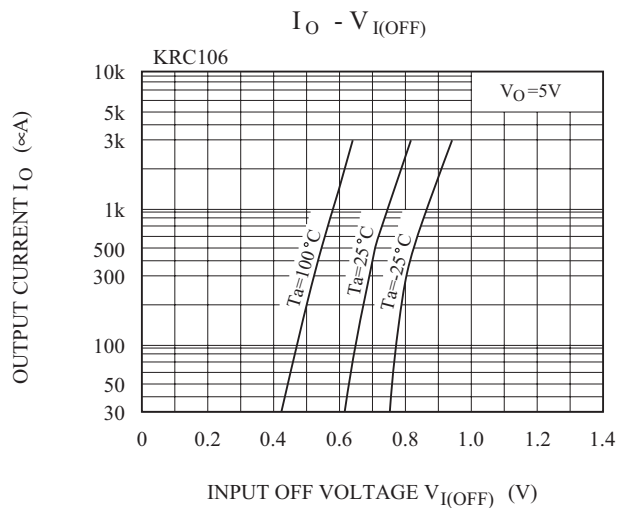
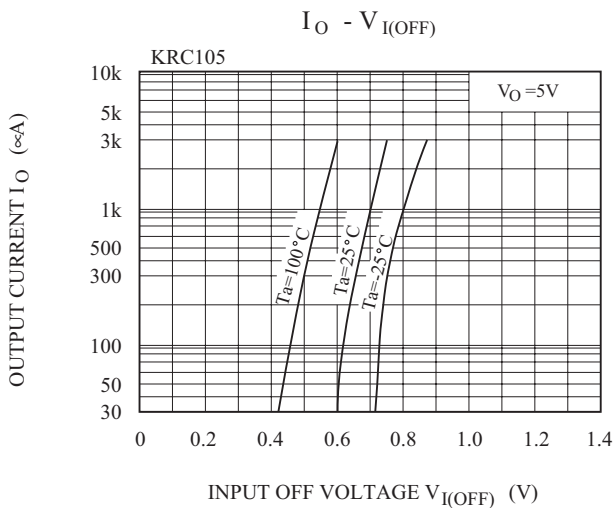
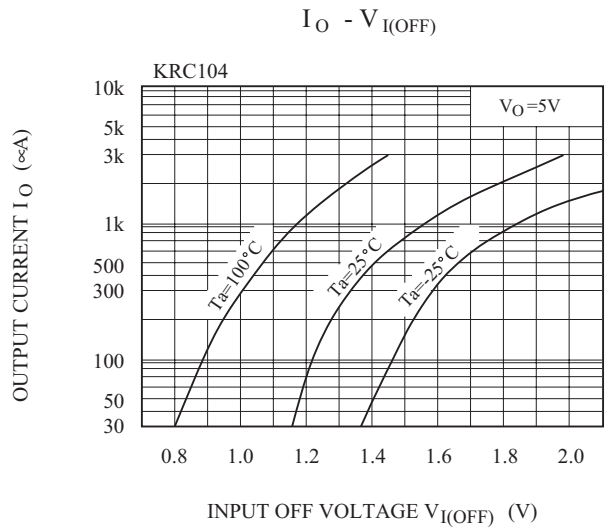
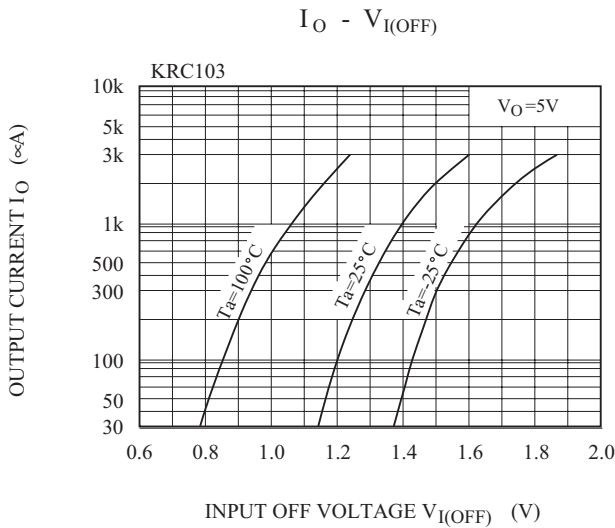
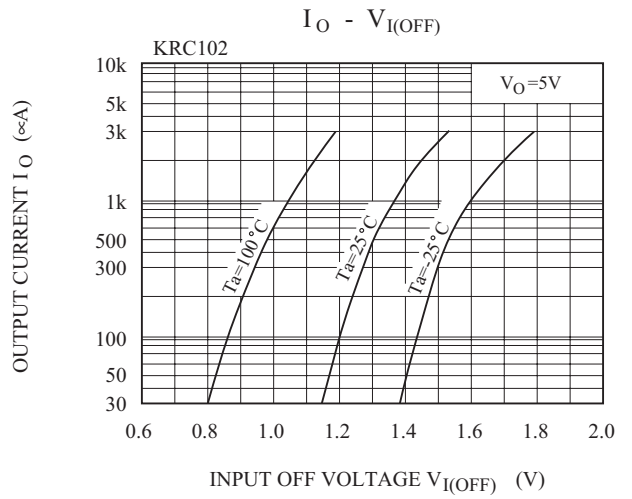
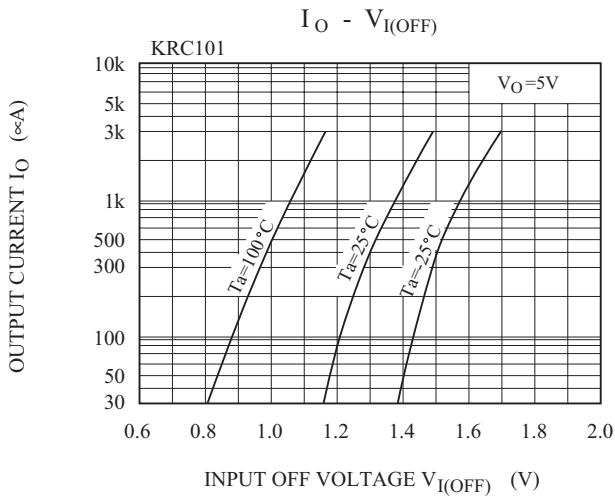
ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRC101	V _O =5V V _{IN} =5V R _L =1k	-	0.03	-	μs
		KRC102		-	0.05	-	
		KRC103		-	0.12	-	
		KRC104		-	0.22	-	
		KRC105		-	0.01	-	
		KRC106		-	0.03	-	
	Storage Time	KRC101		-	2.0	-	
		KRC102		-	2.0	-	
		KRC103		-	2.0	-	
		KRC104		-	2.0	-	
		KRC105		-	2.0	-	
		KRC106		-	2.0	-	
	Fall Time	KRC101		-	0.12	-	
		KRC102		-	0.36	-	
		KRC103		-	0.35	-	
		KRC104		-	0.6	-	
		KRC105		-	0.1	-	
		KRC106		-	0.19	-	

KRC101~KRC106



KRC101~KRC106



KRC101~KRC106

