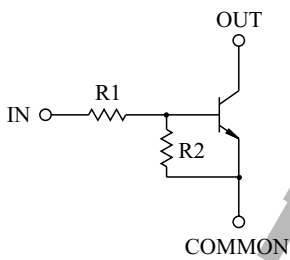


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

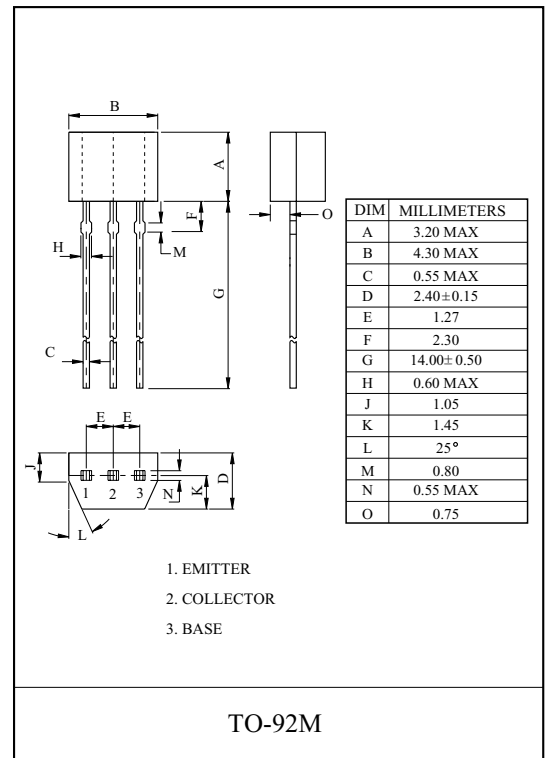
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRC101M	4.7	4.7
KRC102M	10	10
KRC103M	22	22
KRC104M	47	47
KRC105M	2.2	47
KRC106M	4.7	47



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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC101M 106M	V_O	50	V
Input Voltage	KRC101M	V_I	20, -10	V
	KRC102M		30, -10	
	KRC103M		40, -10	
	KRC104M		40, -10	
	KRC105M		12, -5	
	KRC106M		20, -5	
Output Current	KRC101M 106M	I_O	100	mA
Power Dissipation		P_D	400	mW
Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 150	

KRC101M~KRC106M

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC101M 106M	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC101M	G_I	$V_O=5V, I_O=10mA$	30	55	-	
	KRC102M			50	80	-	
	KRC103M			70	120	-	
	KRC104M			80	200	-	
	KRC105M			80	200	-	
	KRC106M			80	200	-	
Output Voltage	KRC101M 106M	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC101M	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.5	2.0	V
	KRC102M			-	1.8	2.4	
	KRC103M			-	2.1	3.0	
	KRC104M			-	2.8	5.0	
	KRC105M			-	0.8	1.1	
	KRC106M			-	0.9	1.3	
Input Voltage (OFF)	KRC101M 104M	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	1.0	1.2	-	V
	KRC105M 106M			0.5	0.65	-	
Transition Frequency	KRC101M 106M	f_T^*	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current	KRC101M	I_I	$V_I=5V$	-	-	1.8	mA
	KRC102M			-	-	0.88	
	KRC103M			-	-	0.36	
	KRC104M			-	-	0.18	
	KRC105M			-	-	3.6	
	KRC106M			-	-	1.8	
Input Resistor	KRC101M	R1	-	3.29	4.7	6.11	k
	KRC102M			7	10	13	
	KRC103M			15.4	22	28.6	
	KRC104M			32.9	47	61.1	
	KRC105M			1.54	2.2	2.86	
	KRC106M			3.29	4.7	6.11	
Resistor Ratio	KRC101M 104M	R2/R1	-	0.8	1.0	1.2	
	KRC105M			17	21	26	
	KRC106M			8	10	12	

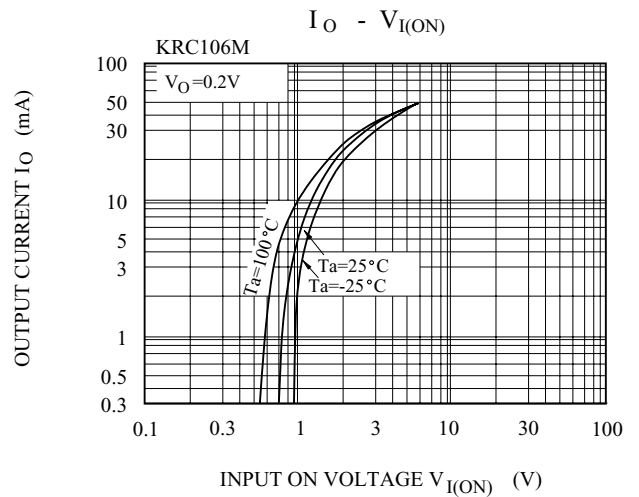
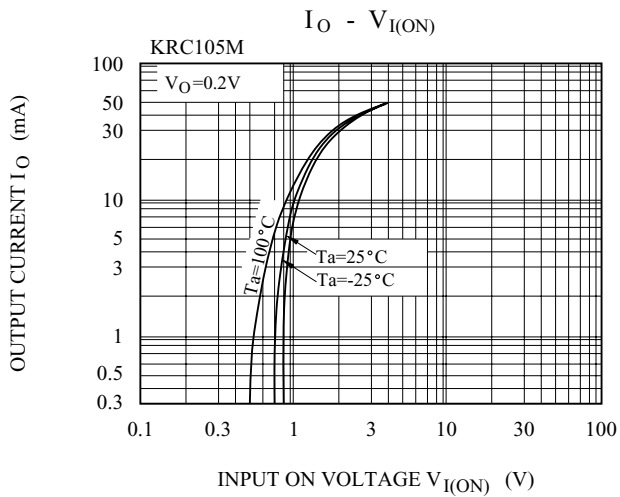
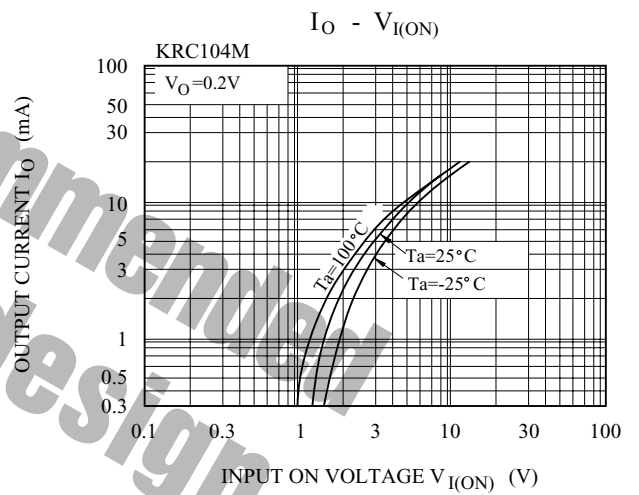
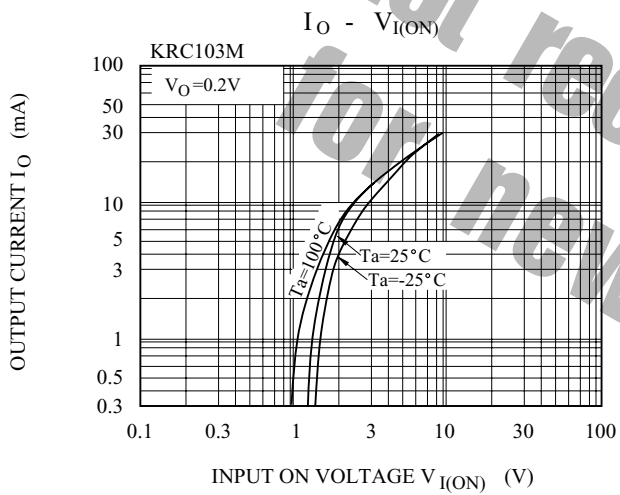
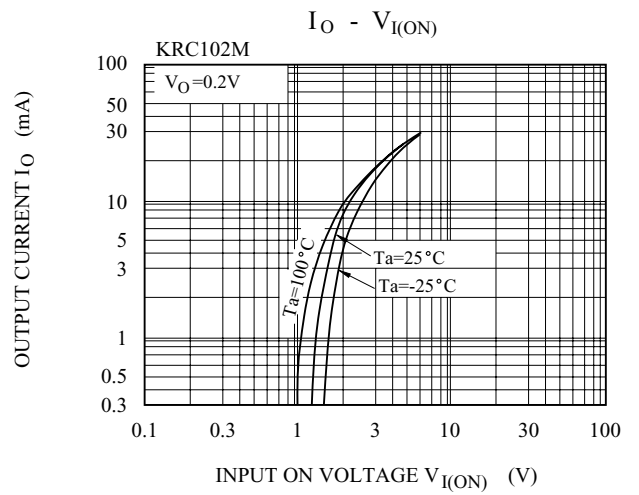
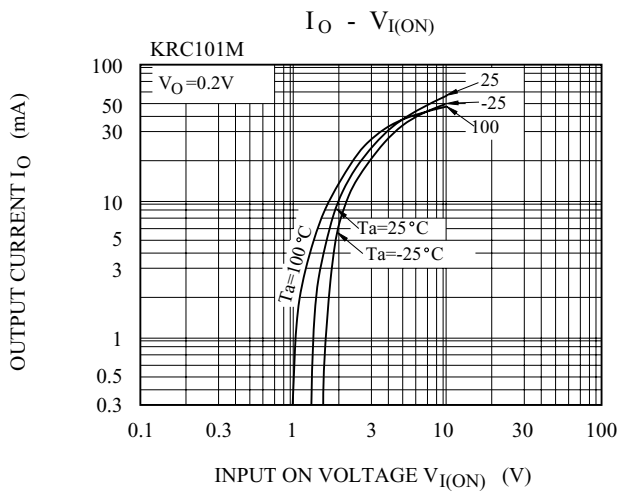
Note : * Characteristic of Transistor Only.

KRC101M~KRC106M

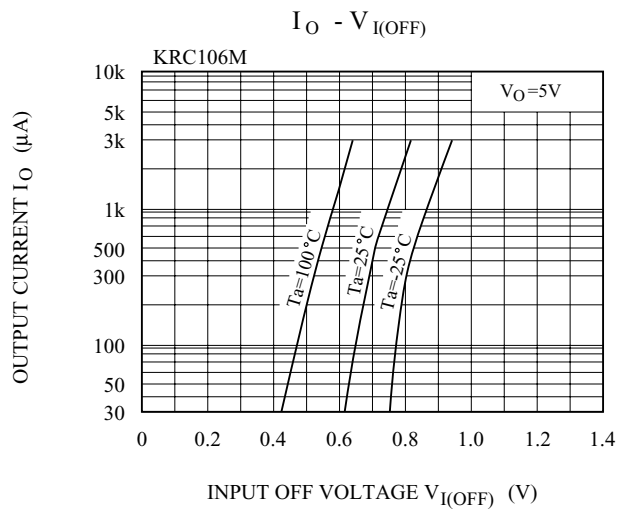
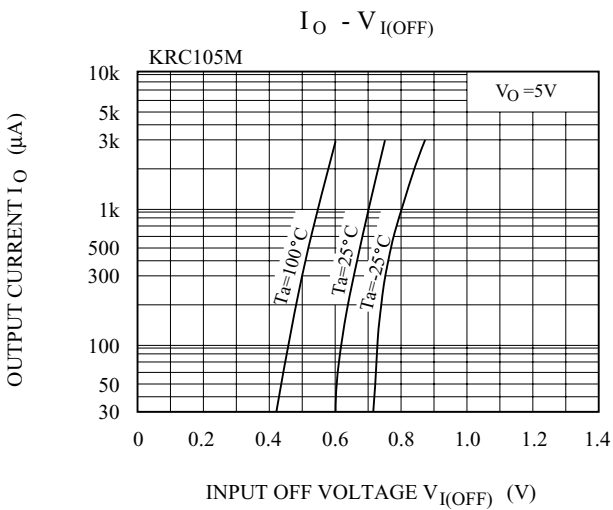
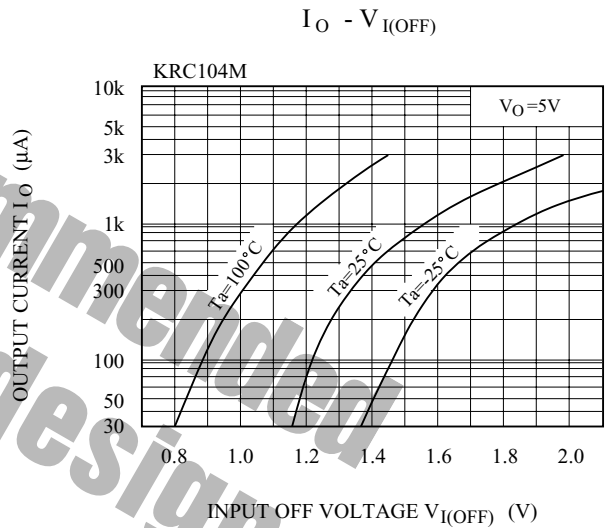
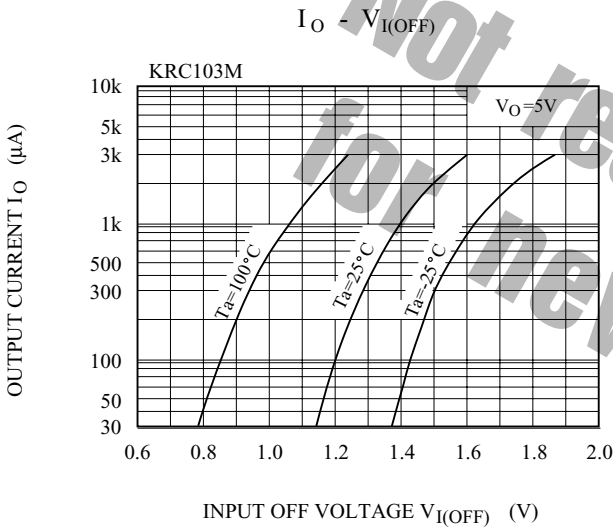
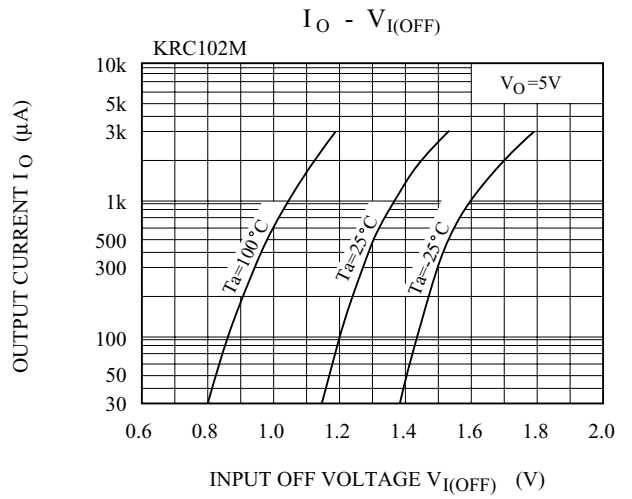
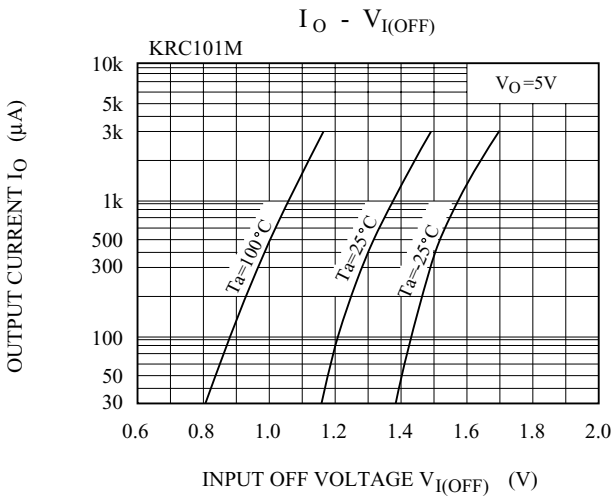
ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Switching Time	Rise Time	KRC101M	V _O =5V V _{IN} =5V R _L =1k	-	0.03	-	μs	
		KRC102M		-	0.05	-		
		KRC103M		-	0.12	-		
		KRC104M		-	0.22	-		
		KRC105M		-	0.01	-		
		KRC106M		-	0.03	-		
	Storage Time	KRC101M		t _{stg}	-	2.0		-
		KRC102M			-	2.0		-
		KRC103M			-	2.0		-
		KRC104M			-	2.0		-
		KRC105M			-	2.0		-
		KRC106M			-	2.0		-
	Fall Time	KRC101M		t _f	-	0.12		-
		KRC102M			-	0.36		-
		KRC103M			-	0.35		-
		KRC104M			-	0.6		-
		KRC105M			-	0.1		-
		KRC106M			-	0.19		-

KRC101M~KRC106M



KRC101M~KRC106M



KRC101M~KRC106M

