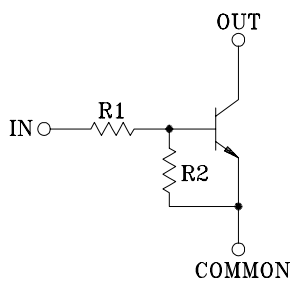


HIGH CURRENT SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

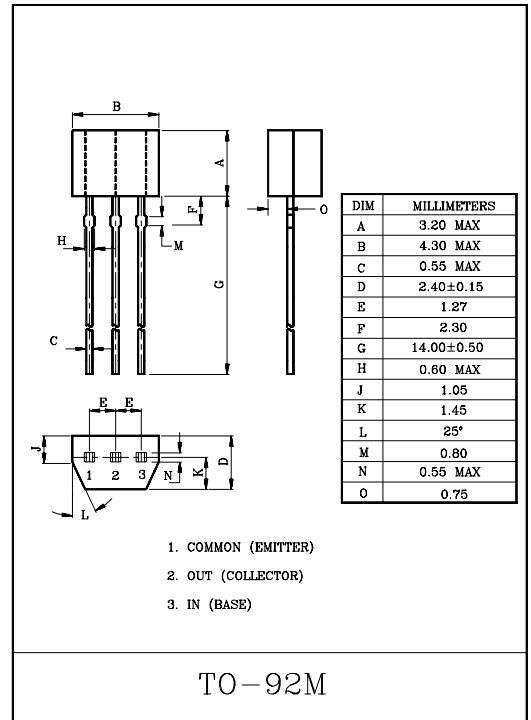
FEATURES

- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Output Current : 800mA.

EQUIVALENT CIRCUIT



TYPE NO.	R1(k Ω)	R2(k Ω)
KRC241M	1	1
KRC242M	2.2	2.2
KRC243M	4.7	4.7
KRC244M	10	10
KRC245M	1	10
KRC246M	2.2	10



MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC241M ~ 246M	V _O	50	V
Input Voltage	KRC241M	V _I	10, -10	V
	KRC242M		12, -10	
	KRC243M		20, -10	
	KRC244M		30, -10	
	KRC245M		10, -5	
	KRC246M		12, -6	
Output Current	KRC241M ~ 246M	I _O	800	mA
Power Dissipation		P _D	400	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C

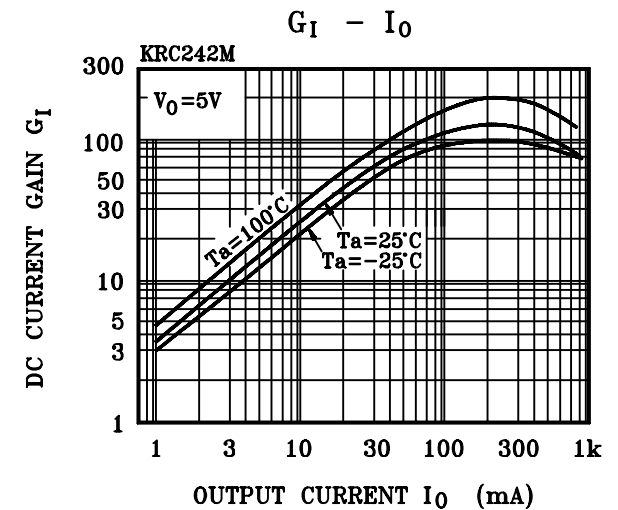
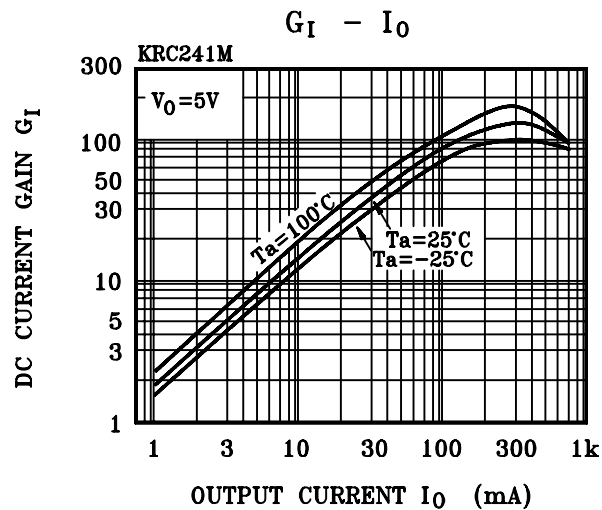
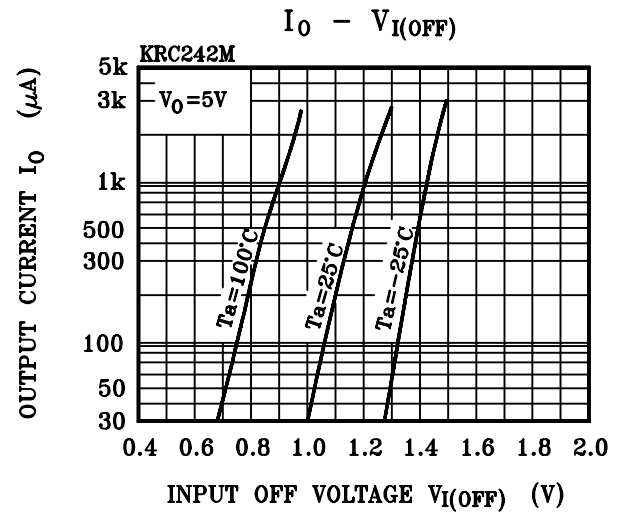
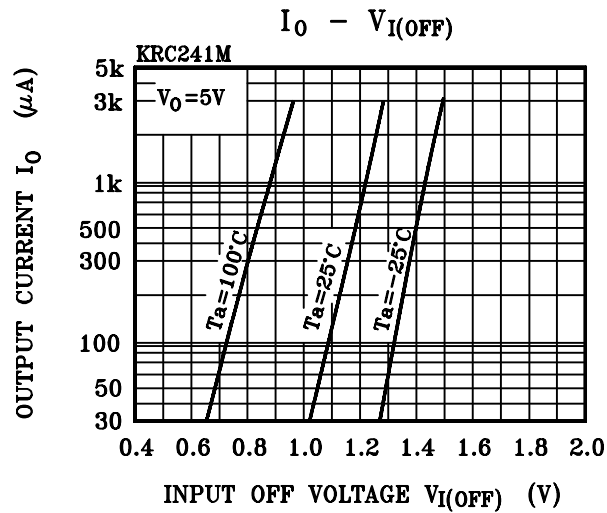
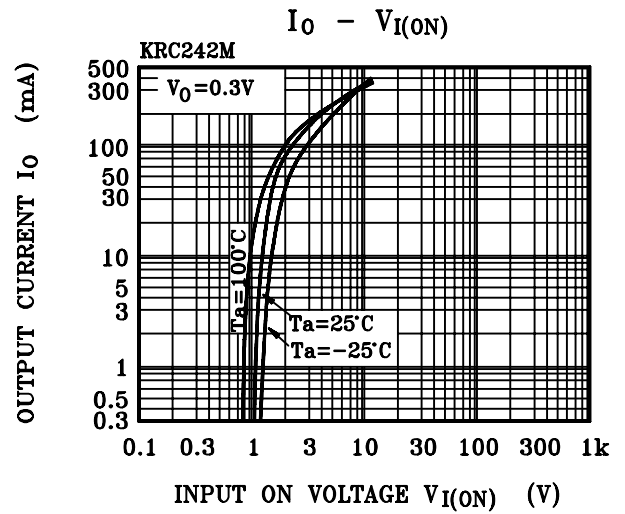
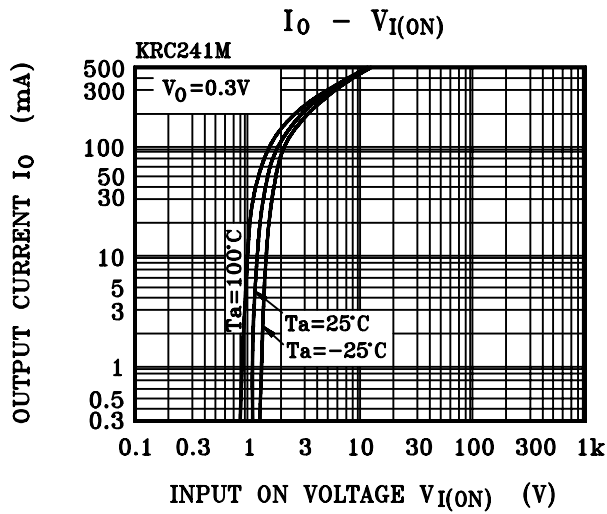
KRC241M ~ KRC246M

ELECTRICAL CHARACTERISTICS(Ta=25℃)

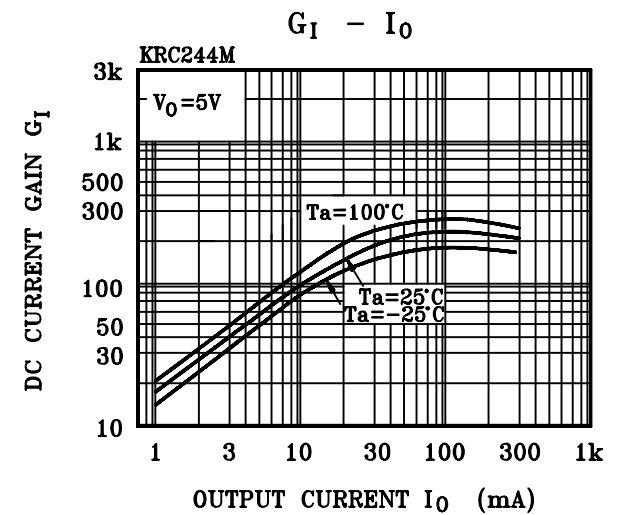
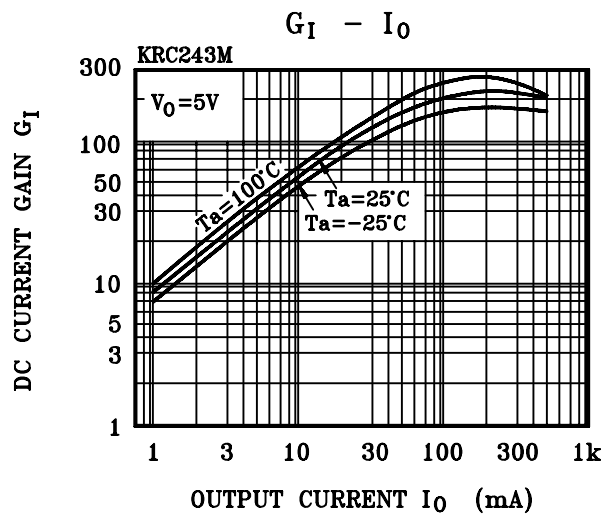
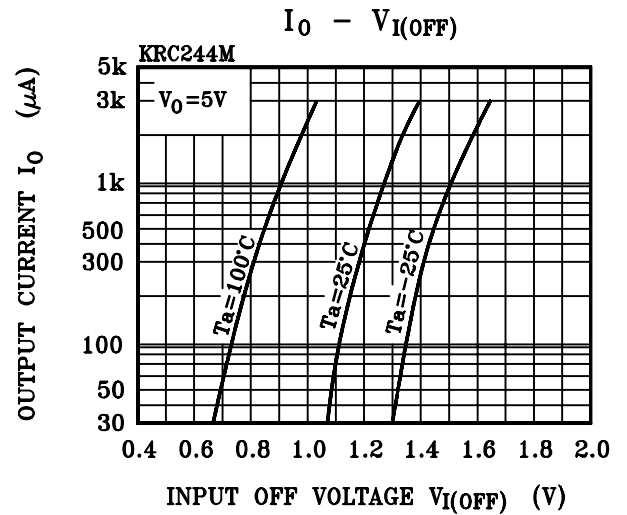
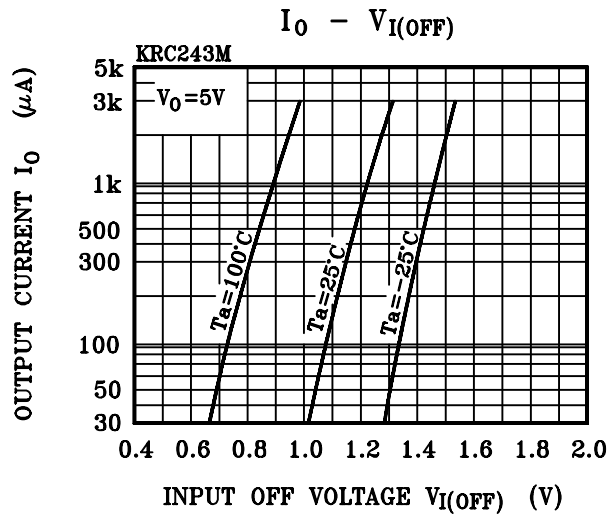
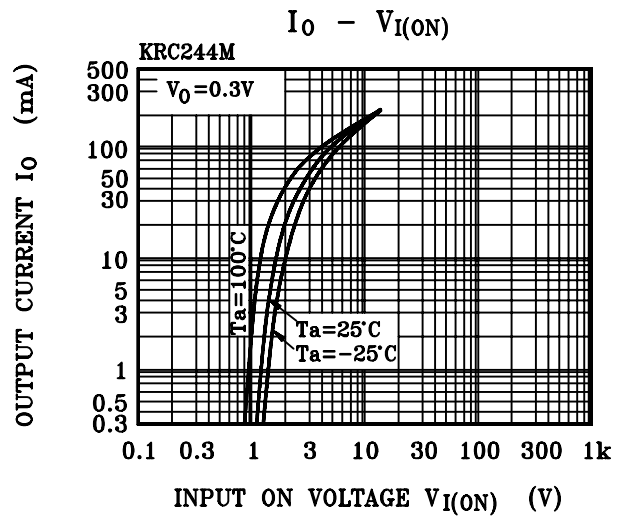
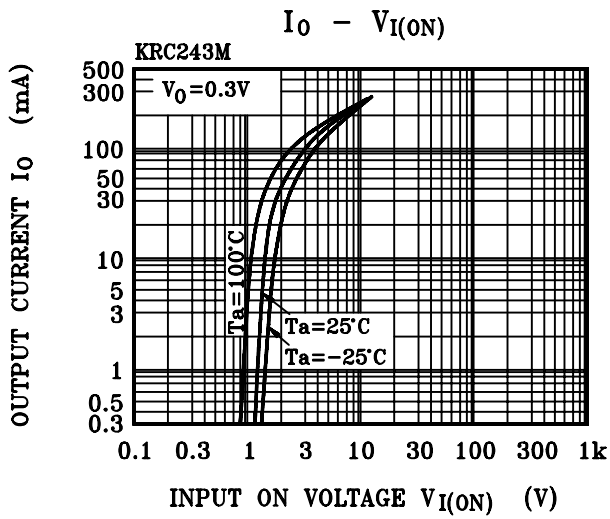
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC241M~246M	$I_{O(OFF)}$	$V_O = 30V, V_I = 0$	–	–	–10	μA
DC Current Gain	KRC241M	G_I	$V_O = 5V, I_O = 50mA$	33	–	–	
	KRC242M			39	–	–	
	KRC243M			47	–	–	
	KRC244M			56	–	–	
	KRC245M			56	–	–	
	KRC246M			56	–	–	
Output Voltage	KRC241M~246M	$V_{O(ON)}$	$I_O = 50mA, I_I = 2.5mA$	–	0.1	0.3	V
Input Voltage (ON)	KRC241M	$V_{I(ON)}$	$V_O = 0.3V, I_O = 20mA$	–	–	3.0	V
	KRC242M			–	–	3.0	
	KRC243M			–	–	3.0	
	KRC244M			–	–	3.0	
	KRC245M			–	–	3.0	
	KRC246M			–	–	2.0	
Input Voltage (OFF)	KRC241M~244M	$V_{I(OFF)}$	$V_O = 5V, I_O = 0.1mA$	0.5	–	–	V
	KRC245M~246M			0.3	–	–	
Transition Frequency	KRC241M~246M	f_T^*	$V_O = 10V, I_O = 5mA, f = 100MHz$	–	200	–	MHz
Input Current	KRC241M	I_I	$V_I = 5V$	–	–	7.2	mA
	KRC242M			–	–	3.8	
	KRC243M			–	–	1.8	
	KRC244M			–	–	0.88	
	KRC245M			–	–	7.2	
	KRC246M			–	–	3.6	

Note : *Characteristic of Transistor Only

KRC241M ~ KRC246M



KRC241M ~ KRC246M



KRC241M ~ KRC246M

