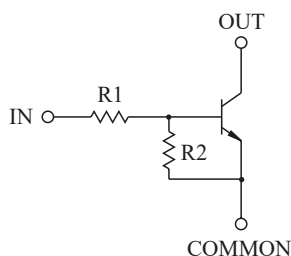


HIGH CURRENT SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

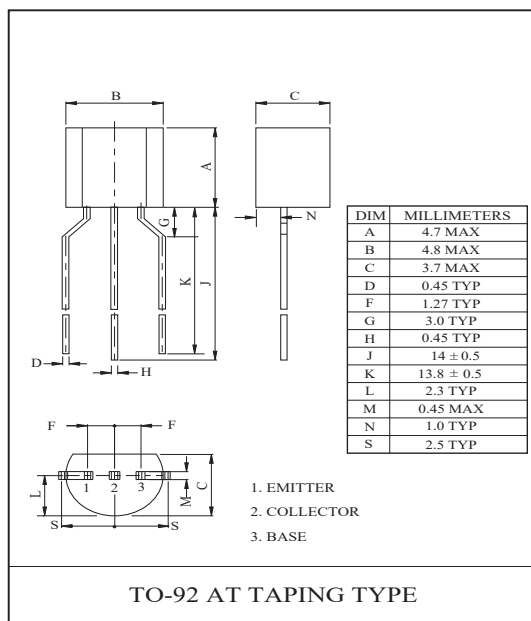
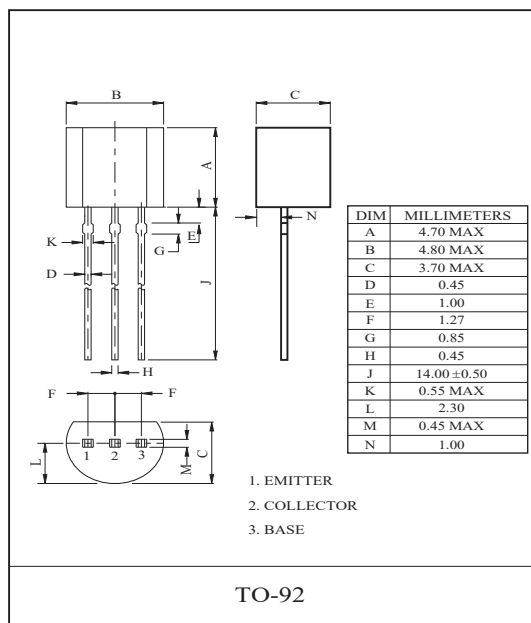
### FEATURES

- 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 $\Omega$ )	R2(k $\Omega$ )
KRC241	1	1
KRC242	2.2	2.2
KRC243	4.7	4.7
KRC244	10	10
KRC245	1	10
KRC246	2.2	10



### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC241 ~ 246	V <sub>O</sub>	50	V
Input Voltage	KRC241	V <sub>I</sub>	10, -10	V
	KRC242		12, -10	
	KRC243		20, -10	
	KRC244		30, -10	
	KRC245		10, -5	
	KRC246		12, -6	
Output Current	KRC241 ~ 246	I <sub>O</sub>	800	mA
Power Dissipation		P <sub>D</sub>	625	mW
Junction Temperature		T <sub>j</sub>	-55~150	°C
Storage Temperature Range		T <sub>stg</sub>	-55~150	°C

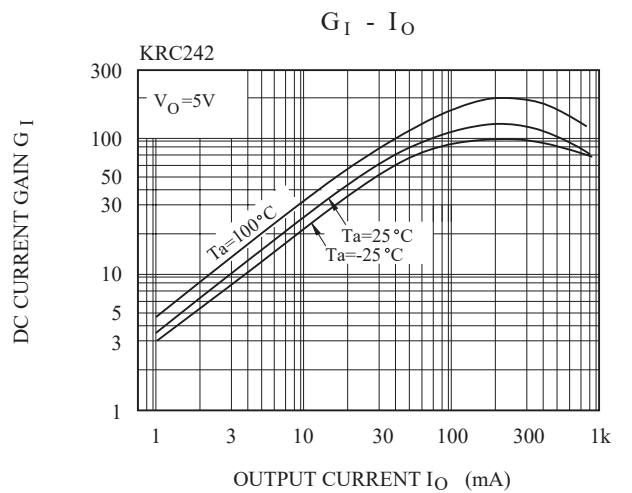
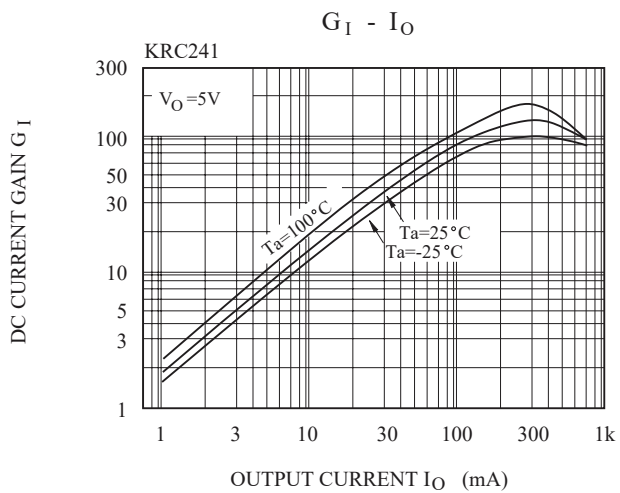
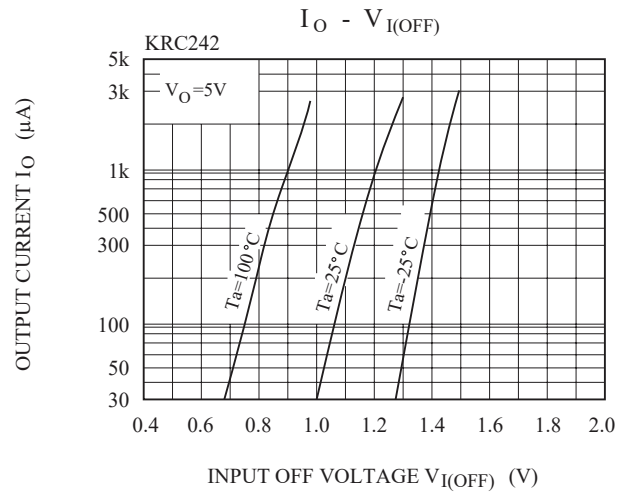
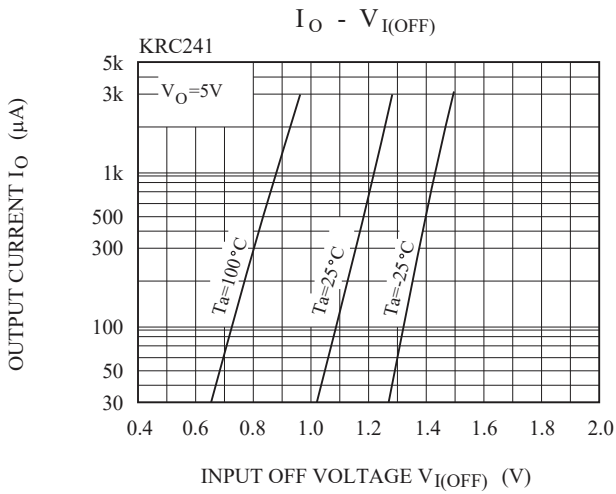
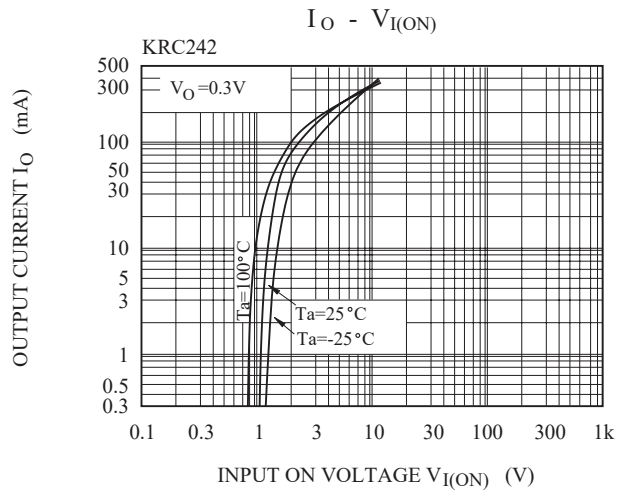
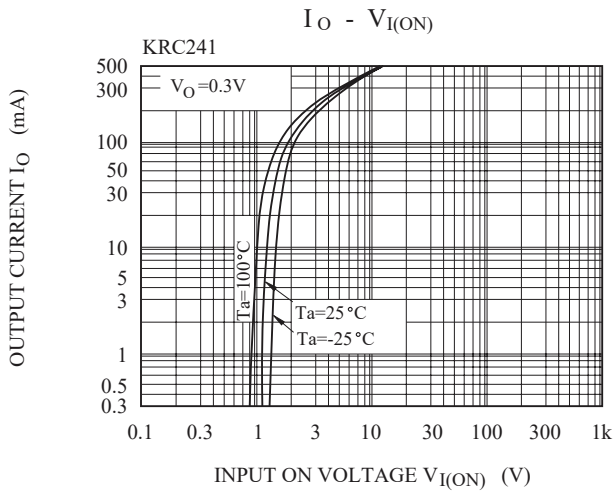
# KRC241~KRC246

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

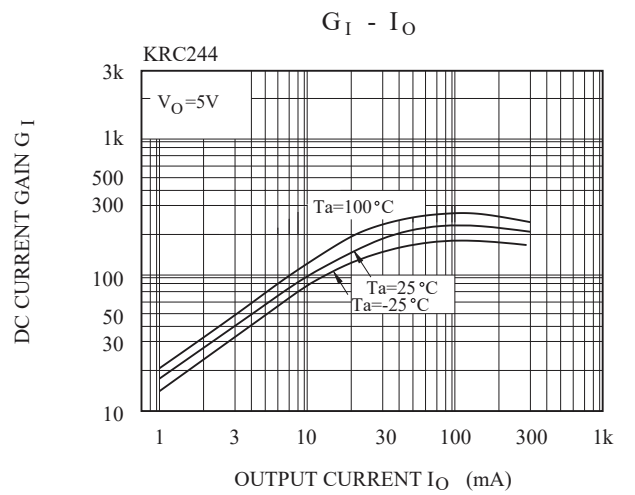
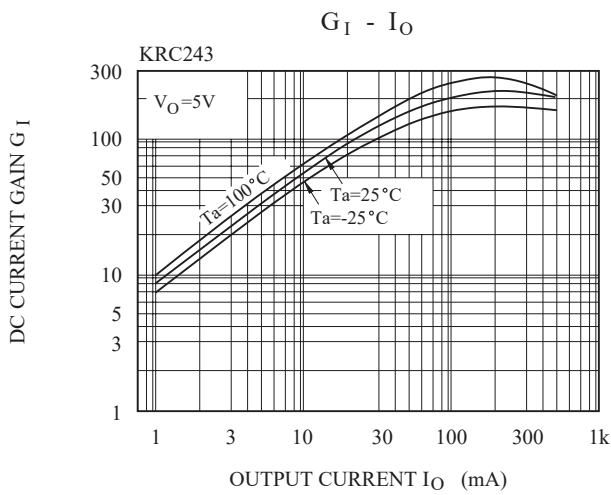
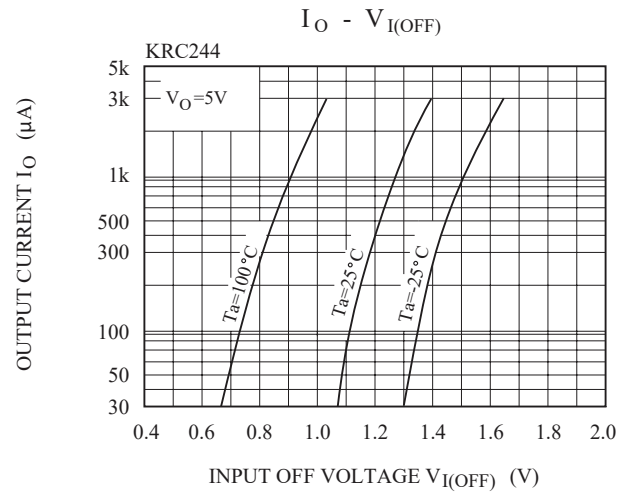
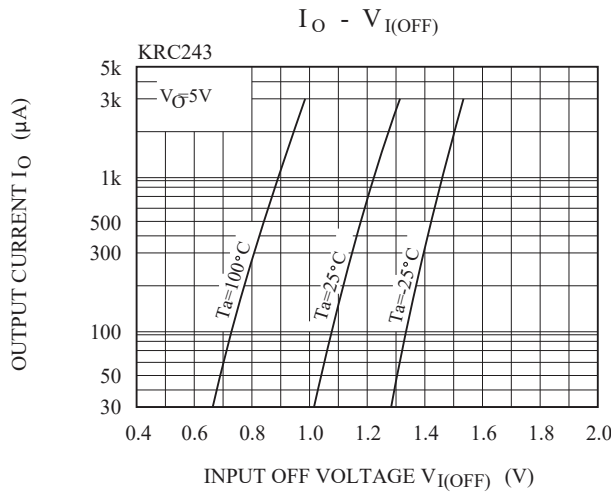
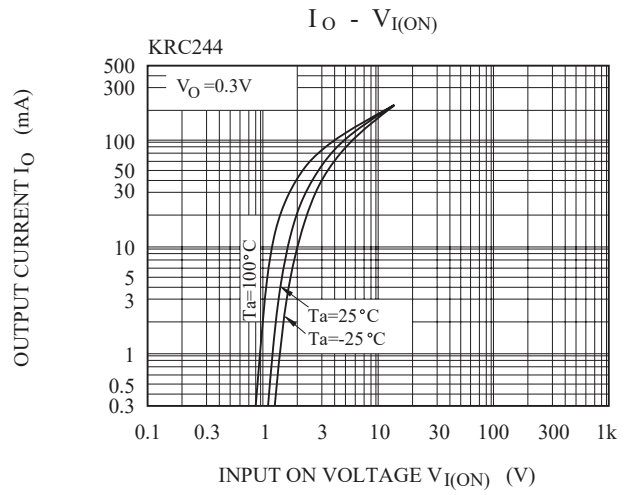
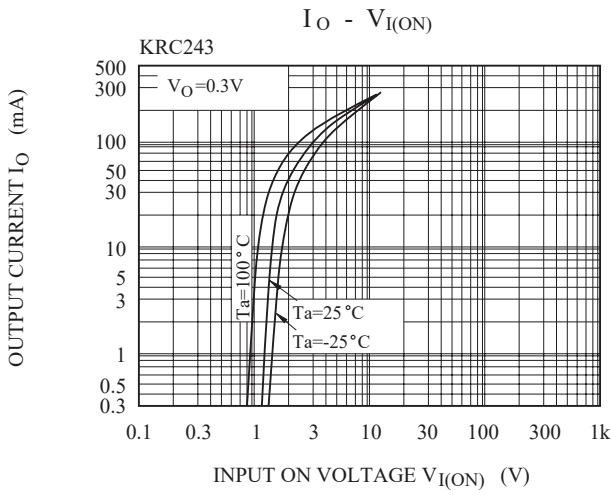
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC241 ~ 246	$I_{O(OFF)}$	$V_O=30V, V_I=0$	-	-	10	$\mu A$
DC Current Gain	KRC241	$G_I$	$V_O=5V, I_O=50mA$	33	-	-	
	KRC242			39	-	-	
	KRC243			47	-	-	
	KRC244			56	-	-	
	KRC245			56	-	-	
	KRC246			56	-	-	
Output Voltage	KRC241 ~ 246	$V_{O(ON)}$	$I_O=50mA, I_I=2.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC241	$V_{I(ON)}$	$V_O=0.3V, I_O=20mA$	-	-	3.0	V
	KRC242			-	-	3.0	
	KRC243			-	-	3.0	
	KRC244			-	-	3.0	
	KRC245			-	-	3.0	
	KRC246			-	-	2.0	
Input Voltage (OFF)	KRC241 ~ 244	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	0.5	-	-	V
	KRC245 ~ 246			0.3	-	-	
Transition Frequency	KRC241 ~ 246	$f_T^*$	$V_O=10V, I_O=5mA, f=100MHz$	-	200	-	MHz
Input Current	KRC241	$I_I$	$V_I=5V$	-	-	7.2	mA
	KRC242			-	-	3.8	
	KRC243			-	-	1.8	
	KRC244			-	-	0.88	
	KRC245			-	-	7.2	
	KRC246			-	-	3.6	
Input Resistor	KRC241	R1	-	0.7	1	1.3	k $\Omega$
	KRC242			1.54	2.2	2.86	
	KRC243			3.29	4.7	6.11	
	KRC244			7	10	13	
	KRC245			0.7	1	1.3	
	KRC246			1.54	2.2	2.86	
Resistor Ratio	KRC241 ~ 244	R2/R1	-	0.8	1	1.2	
	KRC245			8	10	12	
	KRC246			3.6	4.5	5.5	

Note : \* Characteristic of Transistor Only.

# KRC241~KRC246



# KRC241~KRC246



# KRC241~KRC246

