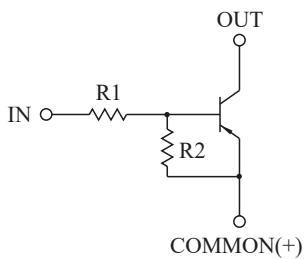


HIGH CURRENT SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

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

### EQUIVALENT CIRCUIT

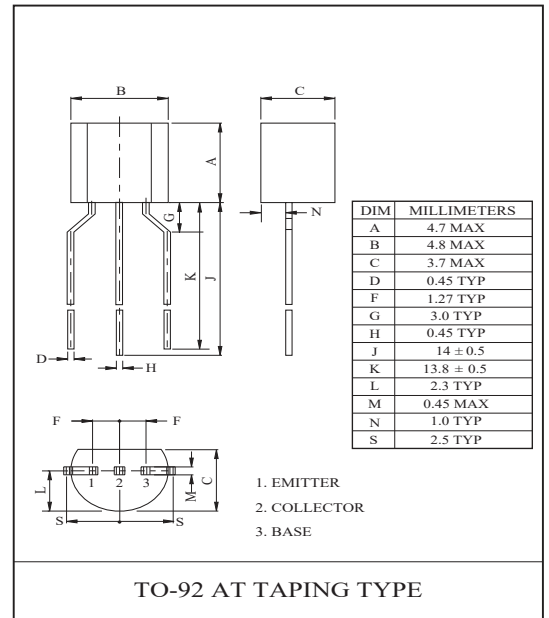
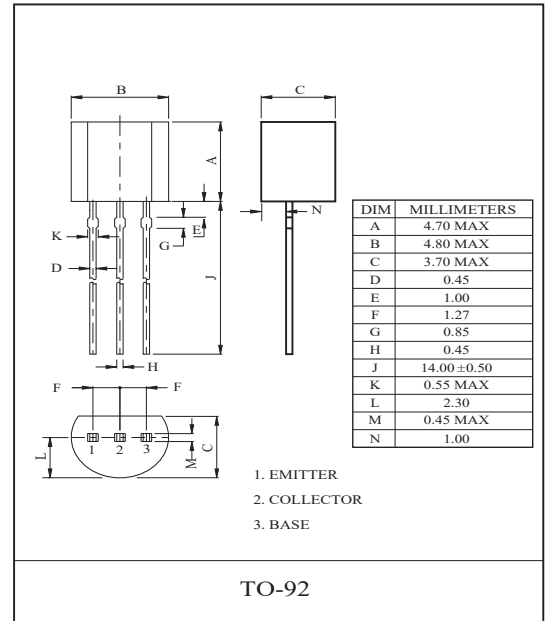


### BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRA221	1	1
KRA222	2.2	2.2
KRA223	4.7	4.7
KRA224	10	10
KRA225	1	10
KRA226	2.2	10

### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA221 ~ 226	$V_O$	-50	V
Input Voltage	KRA221	$V_I$	-10, 10	V
	KRA222		-12, 10	
	KRA223		-20, 10	
	KRA224		-30, 10	
	KRA225		-10, 5	
	KRA226		-12, 6	
Output Current	KRA221 ~ 226	$I_O$	-800	mA
Power Dissipation		$P_D$	625	mW
Junction Temperature		$T_j$	-55~150	°C
Storage Temperature Range		$T_{stg}$	-55 ~ 150	°C



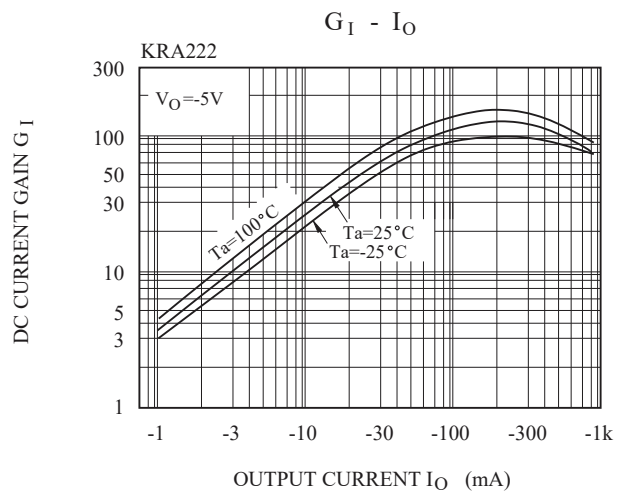
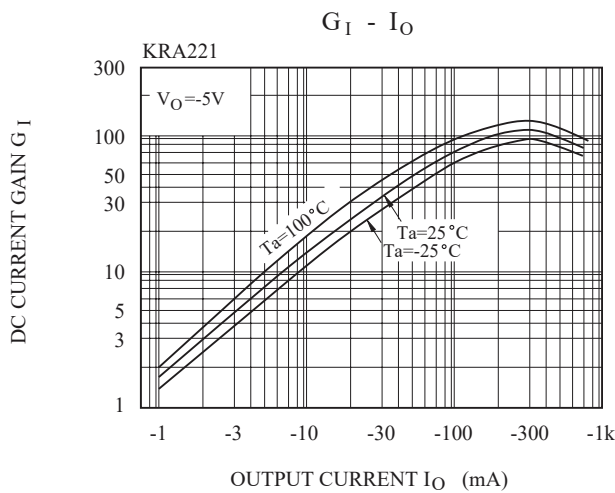
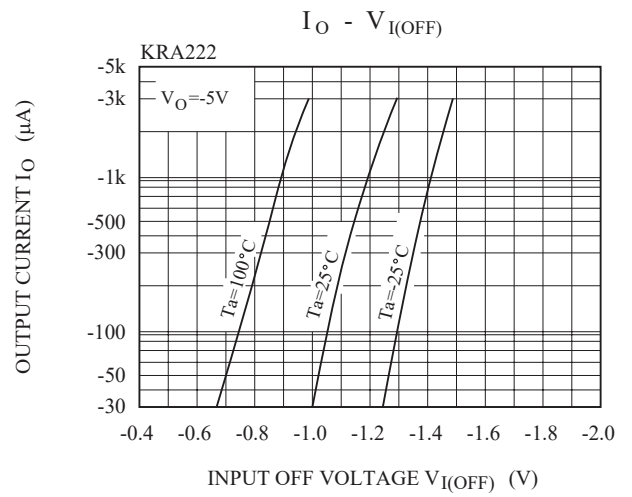
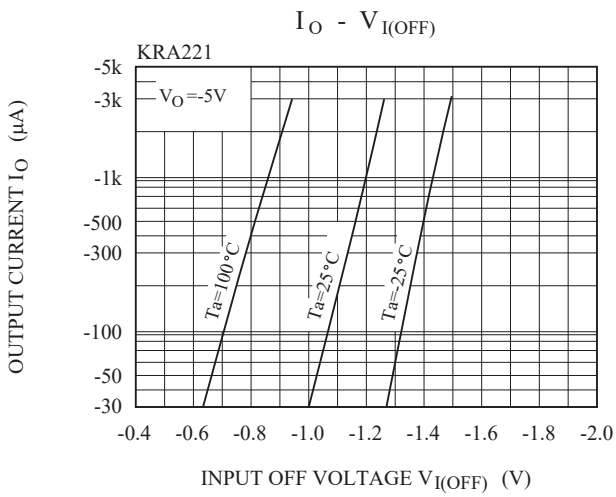
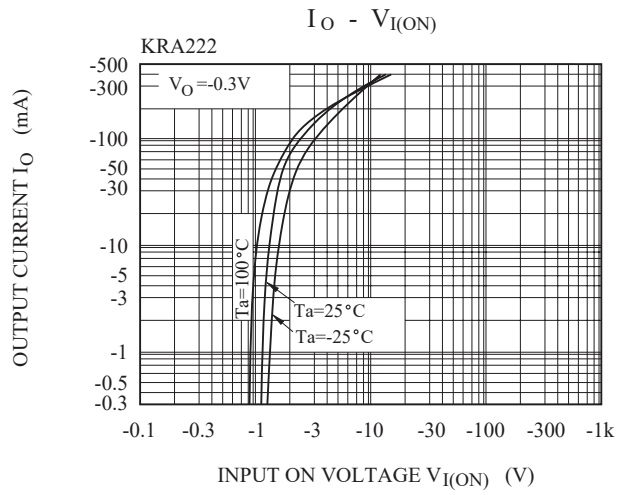
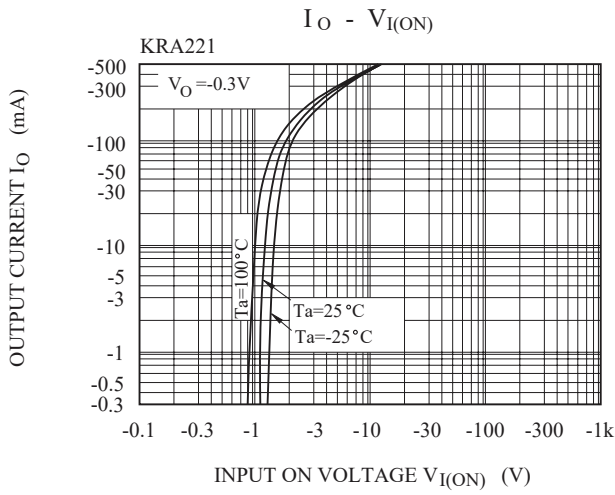
# KRA221~KRA226

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

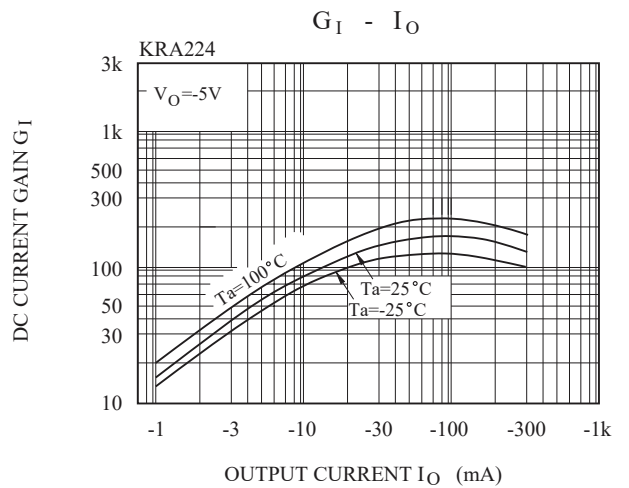
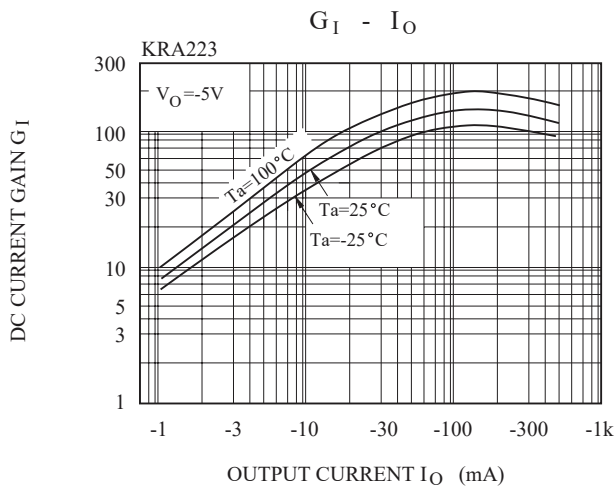
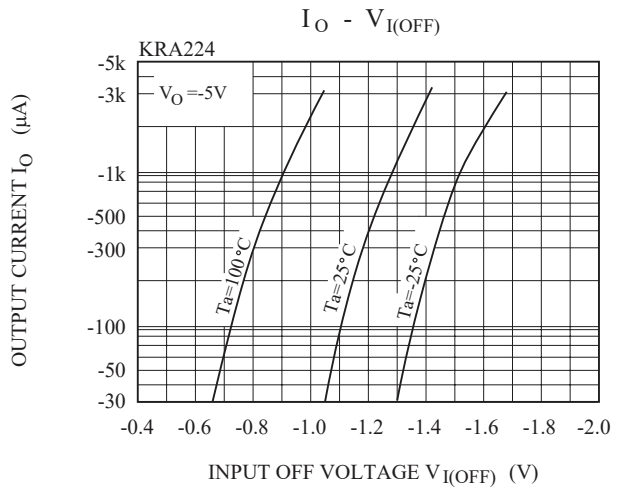
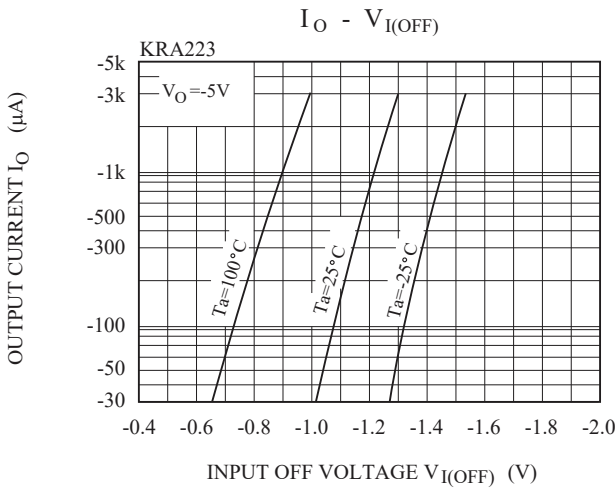
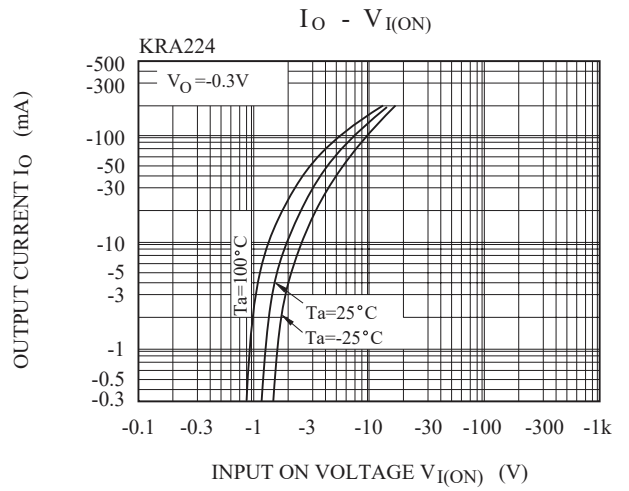
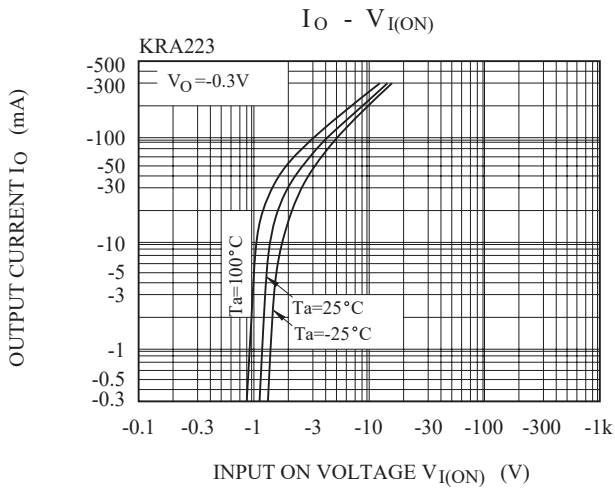
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA221 ~ 226	$I_{O(OFF)}$	$V_O=-30V, V_I=0$	-	-	-10	$\mu A$
DC Current Gain	KRA221	$G_I$	$V_O=-5V, I_O=-50mA$	33	-	-	
	KRA222			39	-	-	
	KRA223			47	-	-	
	KRA224			56	-	-	
	KRA225			56	-	-	
	KRA226			56	-	-	
Output Voltage	KRA221 ~ 226	$V_{O(ON)}$	$I_O=-50mA, I_I=-2.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	KRA221	$V_{I(ON)}$	$V_O=-0.3V, I_O=-20mA$	-	-	-3.0	V
	KRA222			-	-	-3.0	
	KRA223			-	-	-3.0	
	KRA224			-	-	-3.0	
	KRA225			-	-	-3.0	
	KRA226			-	-	-2.0	
Input Voltage (OFF)	KRA221 ~ 224	$V_{I(OFF)}$	$V_O=-5V, I_O=-0.1mA$	-0.5	-	-	V
	KRA225 ~ 226			-0.3	-	-	
Transition Frequency	KRA221 ~ 226	$f_T^*$	$V_O=-10V, I_O=-5mA,$ $f=100MHz$	-	200	-	MHz
Input Current	KRA221	$I_I$	$V_I=-5V$	-	-	-7.2	mA
	KRA222			-	-	-7.2	
	KRA223			-	-	-1.8	
	KRA224			-	-	-0.88	
	KRA225			-	-	-7.2	
	KRA226			-	-	-3.6	
Input Resistor	KRA221	R1	-	0.7	1	1.3	k $\Omega$
	KRA222			1.54	2.2	2.86	
	KRA223			3.29	4.7	6.11	
	KRA224			7	10	13	
	KRA225			0.7	1	1.3	
	KRA226			1.54	2.2	2.86	
Resistor Ratio	KRA221 ~ 224	R2/R1	-	0.8	1	1.2	
	KRA225			8	10	12	
	KRA226			3.6	4.5	5.5	

Note : \* Characteristic of Transistor Only.

# KRA221~KRA226



# KRA221~KRA226



# KRA221~KRA226

