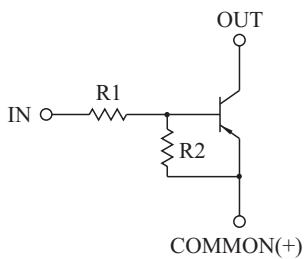


HIGH CURRENT SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

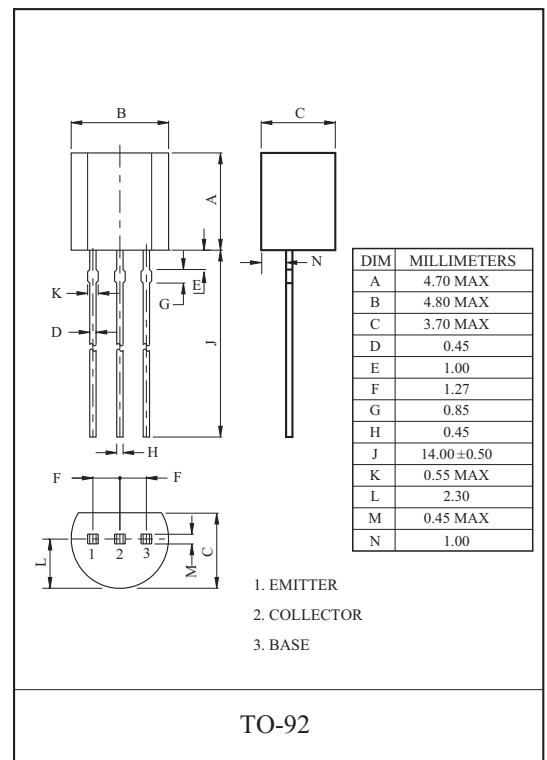
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Output Current :-800mA.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
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	150	
Storage Temperature Range		T_{stg}	-55 150	

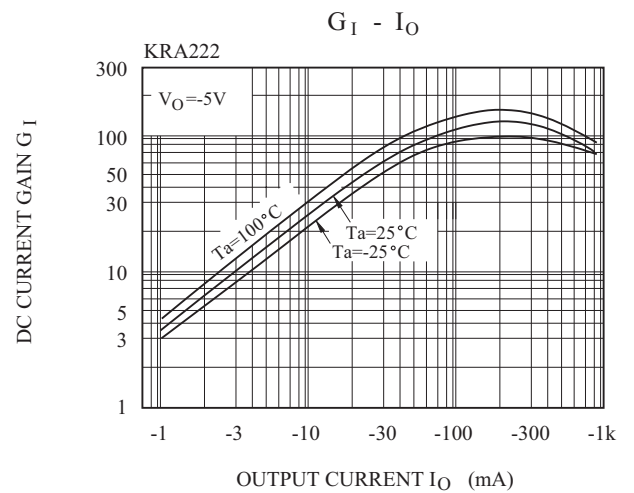
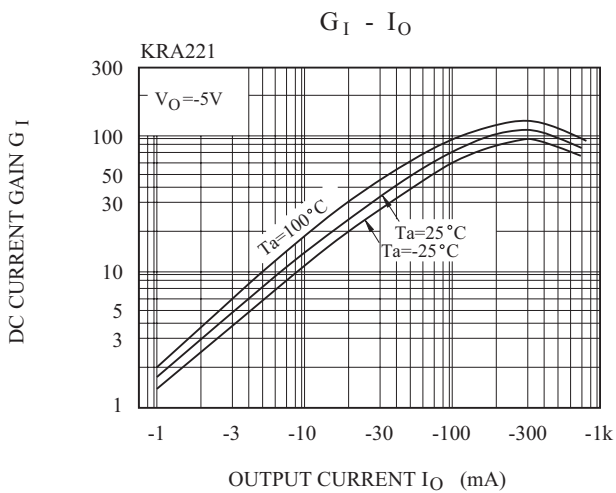
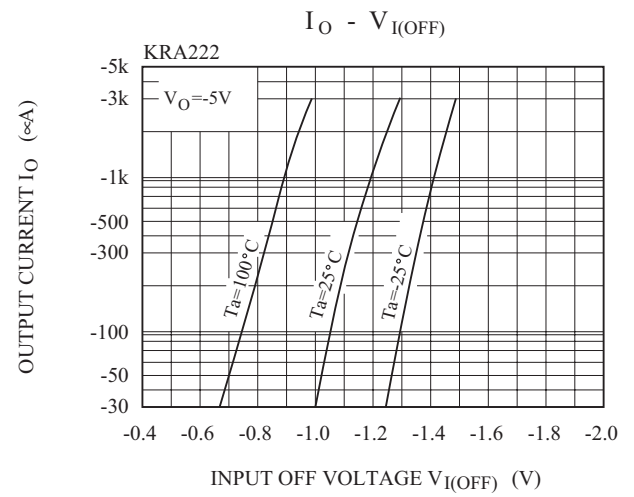
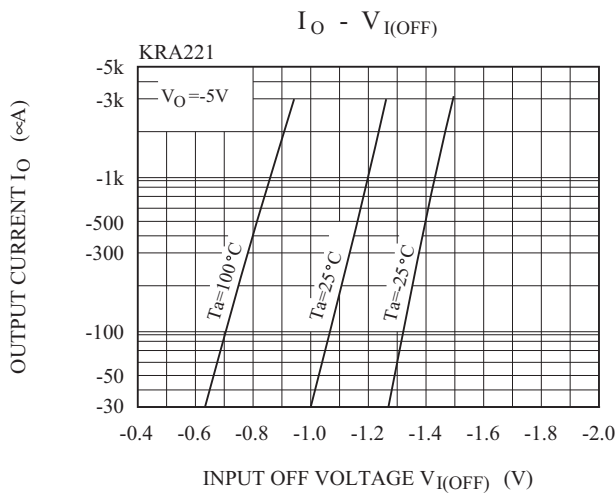
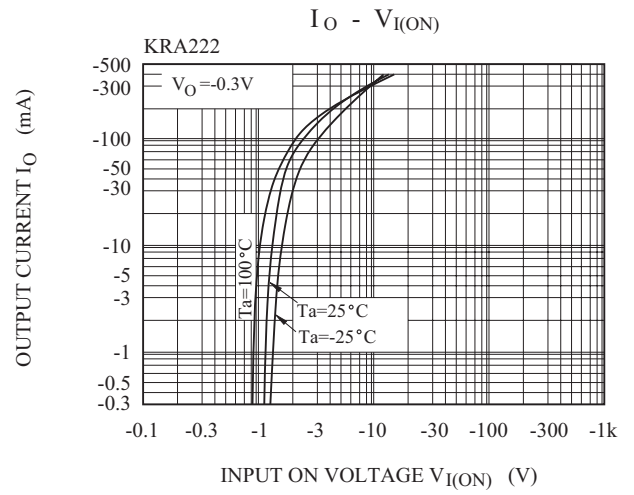
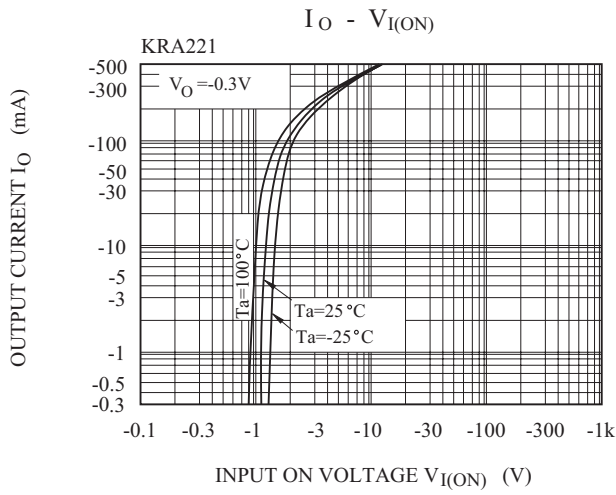
KRA221~KRA226

ELECTRICAL CHARACTERISTICS (Ta=25)

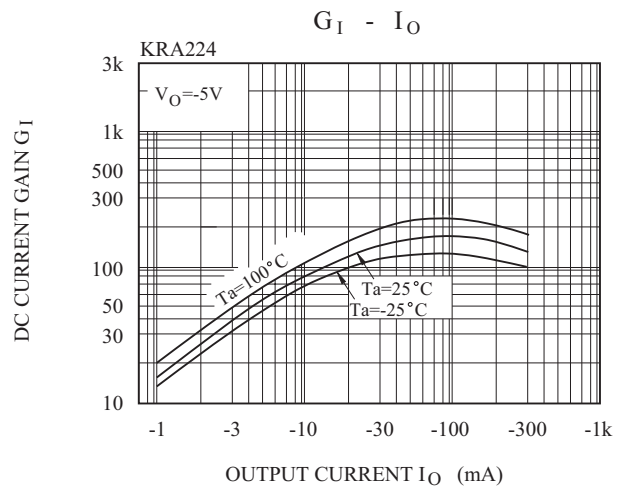
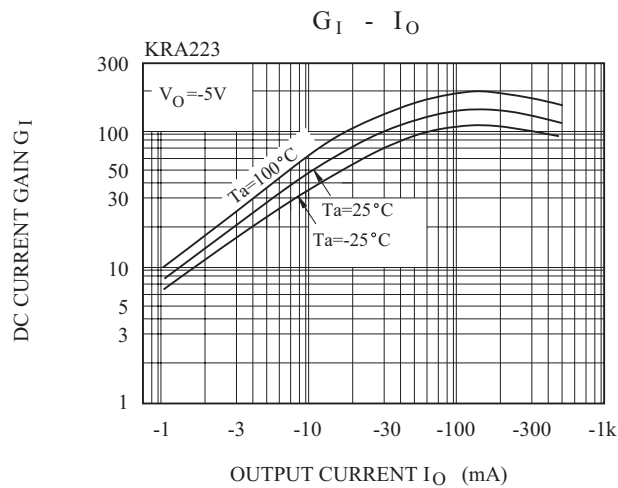
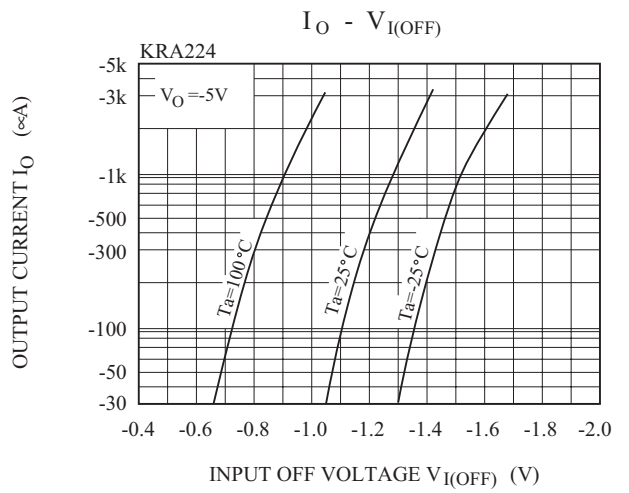
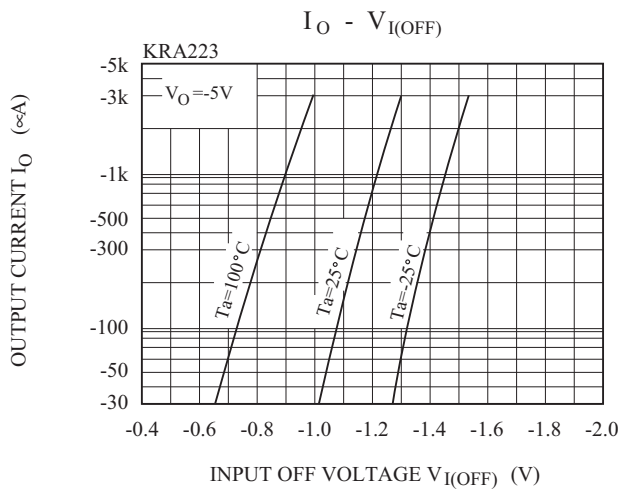
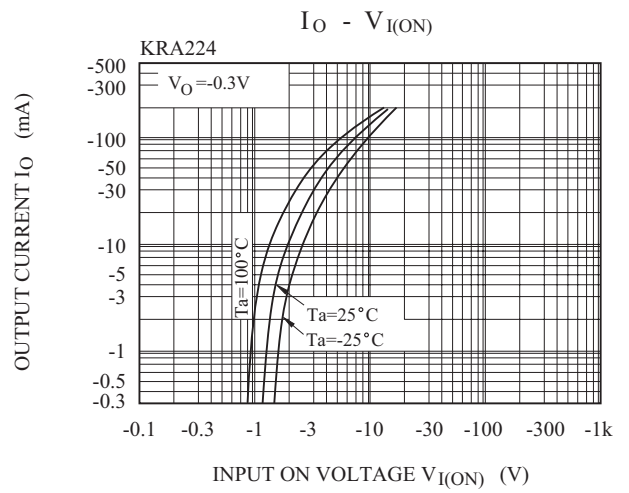
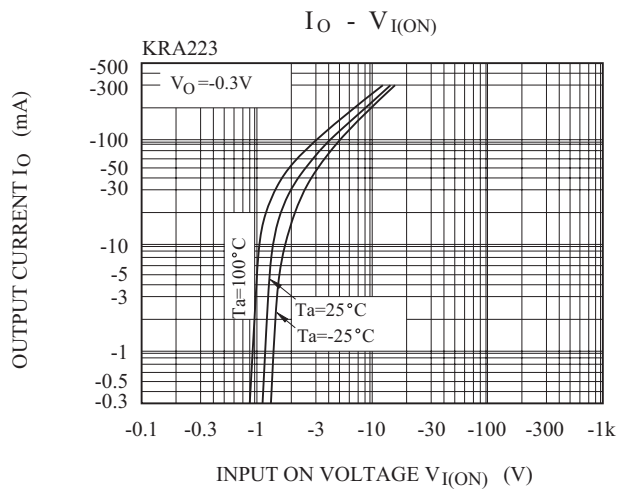
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA221 226	$I_{O(OFF)}$	$V_O = -30V, V_I = 0$	-	-	-10	μA
DC Current Gain	KRA221	G_I	$V_O = -5V, I_O = -50mA$	33	-	-	
	KRA222			39	-	-	
	KRA223			47	-	-	
	KRA224			56	-	-	
	KRA225			56	-	-	
	KRA226			56	-	-	
Output Voltage	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 Ω
	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

