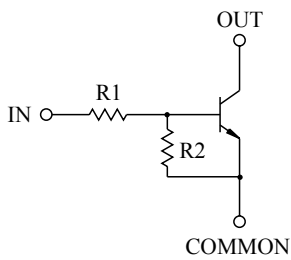


HIGH CURRENT SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

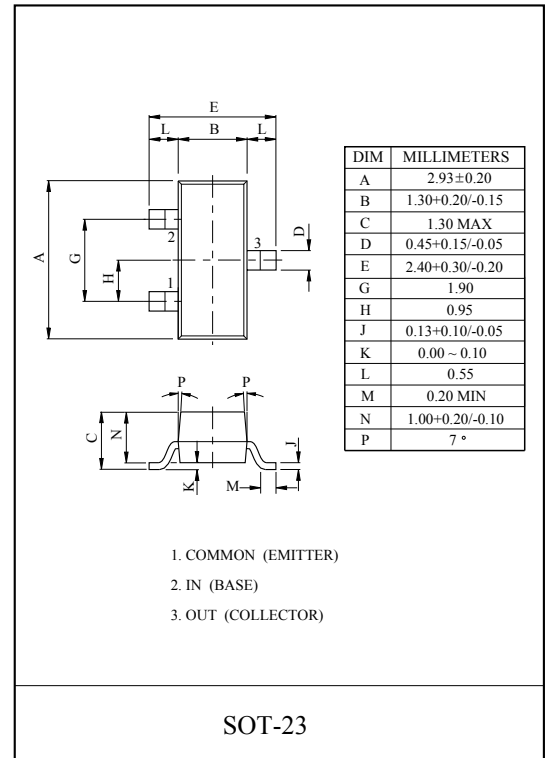
FEATURES

- 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(kΩ)	R2(kΩ)
KRC241S	1	1
KRC242S	2.2	2.2
KRC243S	4.7	4.7
KRC244S	10	10
KRC245S	1	10
KRC246S	2.2	10



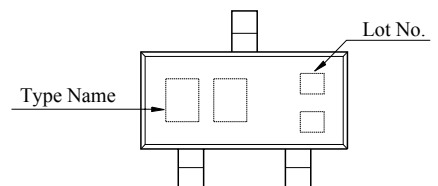
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC241S~246S	V_O	50	V
Input Voltage	KRC241S	V_I	10, -10	V
	KRC242S		12, -10	
	KRC243S		20, -10	
	KRC244S		30, -10	
	KRC245S		10, -5	
	KRC246S		12, -6	
Output Current	KRC241S~246S	I_O	800	mA
Power Dissipation		P_D	200	mW
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55 ~ 150	°C

MARK SPEC

TYPE	KRC241S	KRC242S	KRC243S	KRC244S	KRC245S	KRC246S
MARK	NQ	NR	NS	NT	NU	NV

Marking



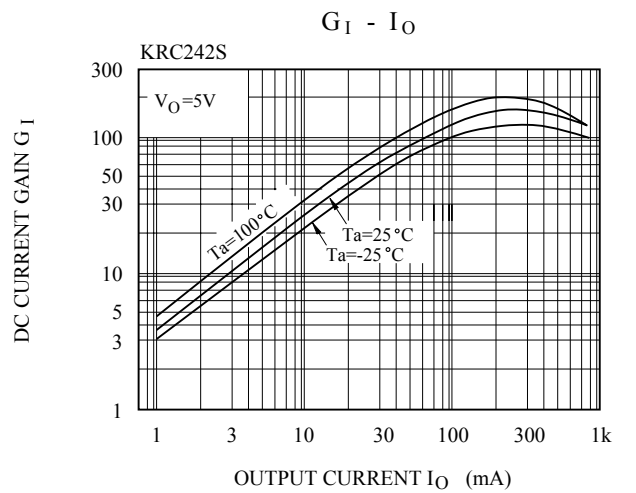
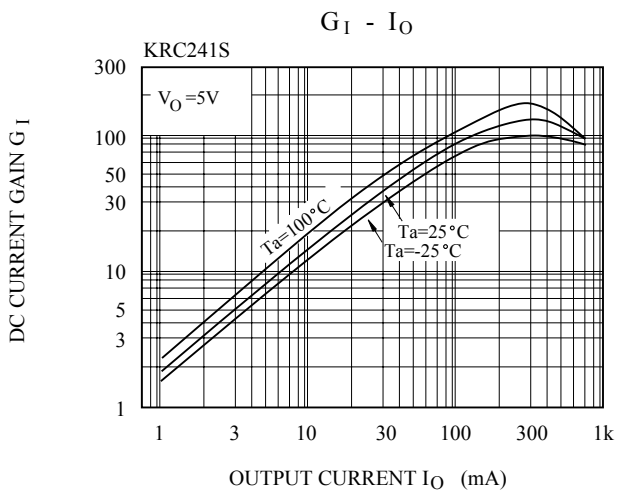
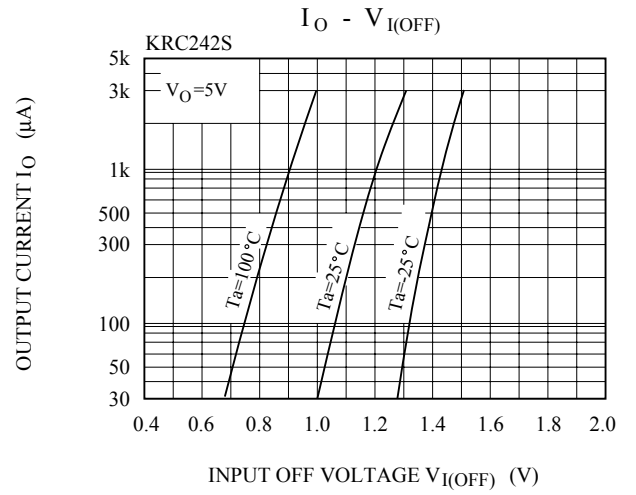
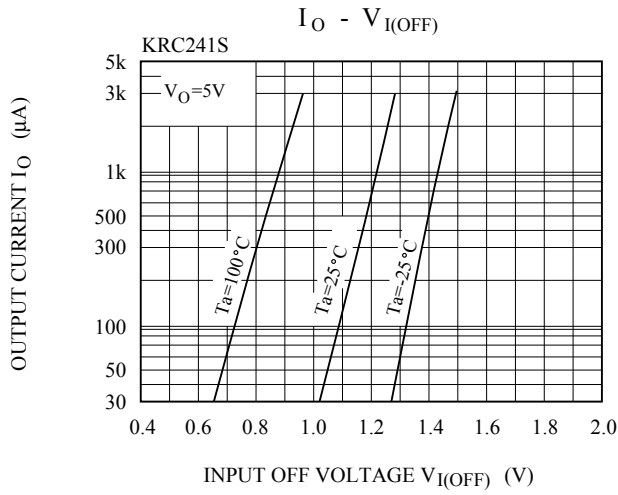
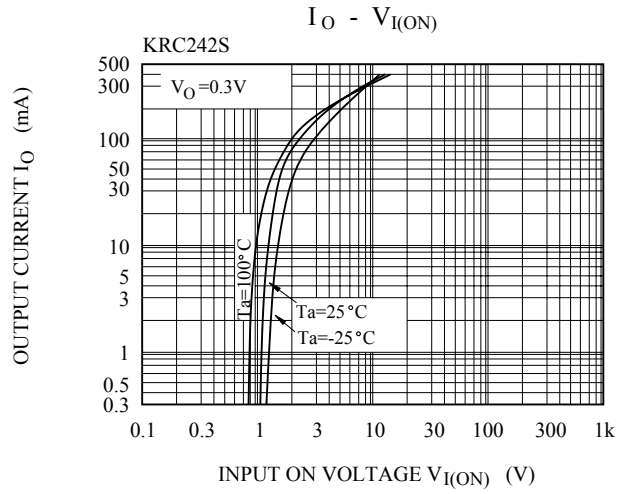
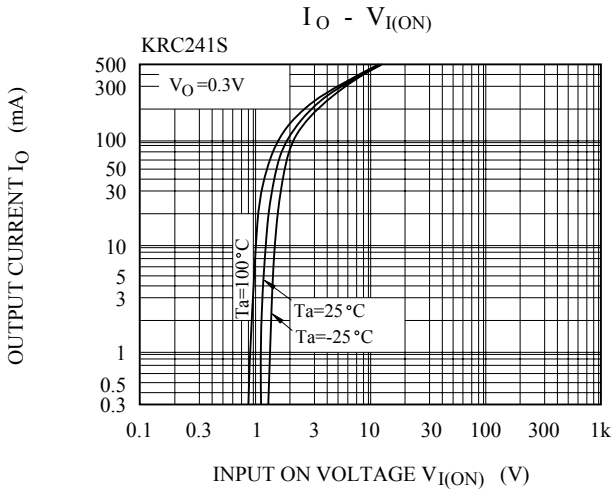
KRC241S~KRC246S

ELECTRICAL CHARACTERISTICS (Ta=25°C)

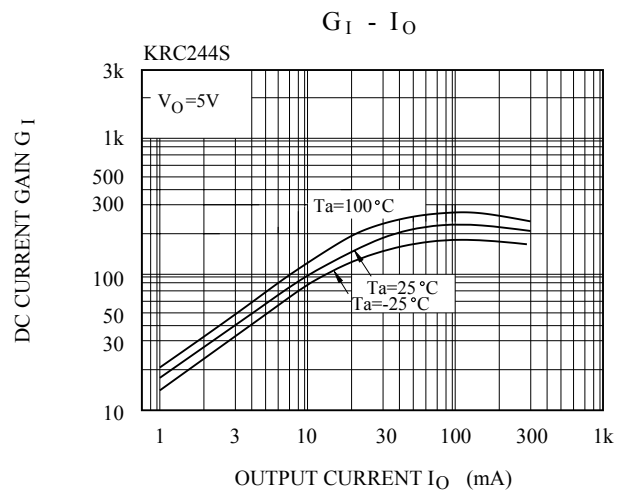
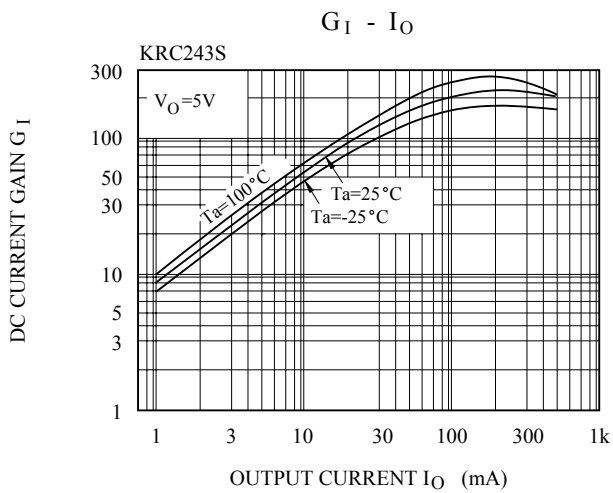
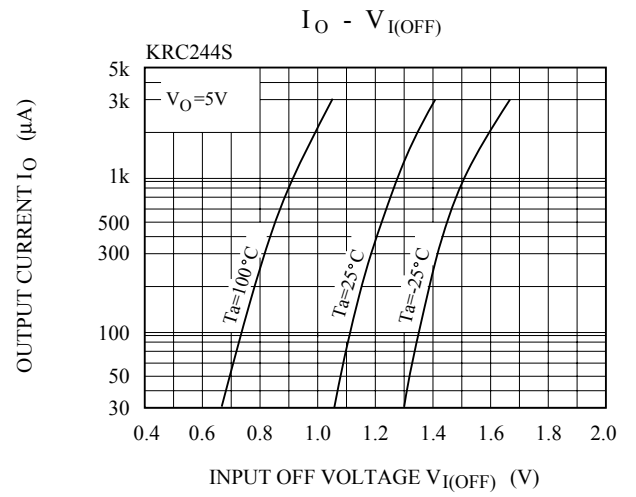
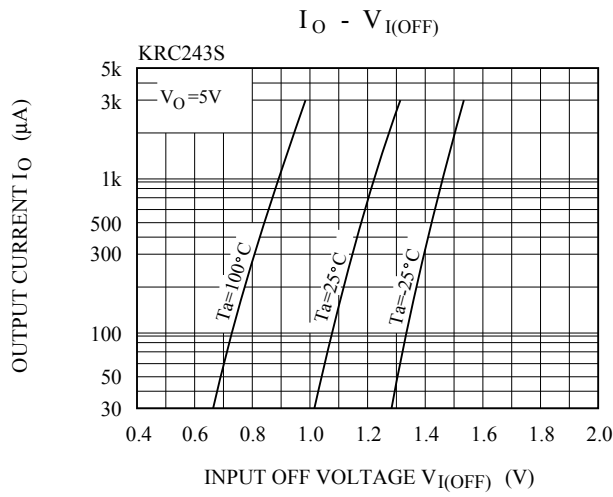
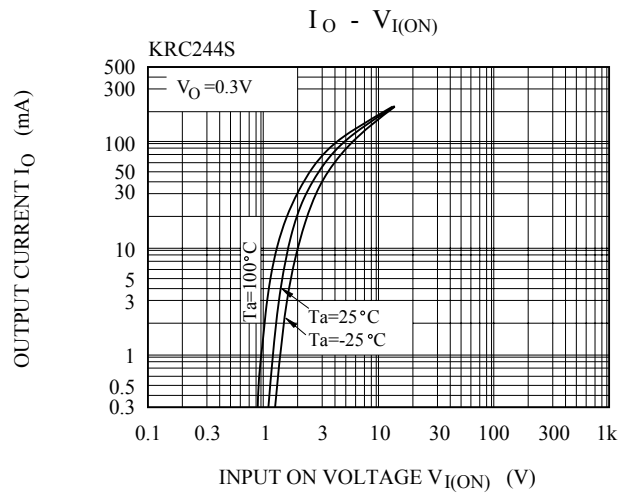
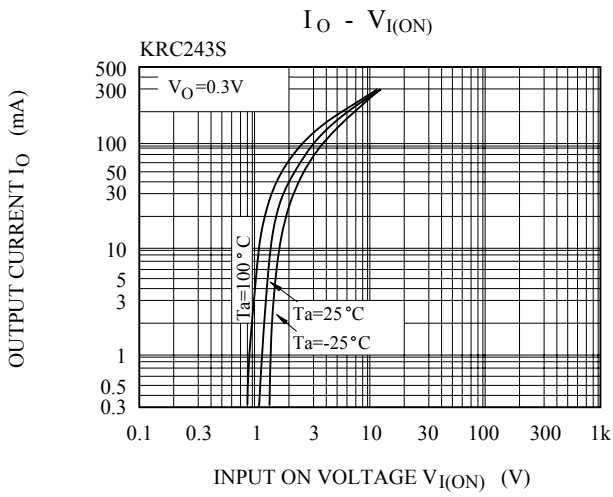
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC241S ~ 246S	$I_{O(OFF)}$	$V_O = 30V, V_I = 0$	-	-	10	μA
DC Current Gain	KRC241S	G_I	$V_O = 5V, I_O = 50mA$	33	-	-	
	KRC242S			39	-	-	
	KRC243S			47	-	-	
	KRC244S			56	-	-	
	KRC245S			56	-	-	
	KRC246S			56	-	-	
Output Voltage	KRC241S ~ 246S	$V_{O(ON)}$	$I_O = 50mA, I_I = 2.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC241S	$V_{I(ON)}$	$V_O = 0.3V, I_O = 20mA$	-	-	3.0	V
	KRC242S			-	-	3.0	
	KRC243S			-	-	3.0	
	KRC244S			-	-	3.0	
	KRC245S			-	-	3.0	
	KRC246S			-	-	2.0	
Input Voltage (OFF)	KRC241S ~ 244S	$V_{I(OFF)}$	$V_O = 5V, I_O = 0.1mA$	0.5	-	-	V
	KRC245S ~ 246S			0.3	-	-	
Transition Frequency	KRC241S ~ 246S	f_T^*	$V_O = 10V, I_O = 5mA, f = 100MHz$	-	200	-	MHz
Input Current	KRC241S	I_I	$V_I = 5V$	-	-	7.2	mA
	KRC242S			-	-	3.8	
	KRC243S			-	-	1.8	
	KRC244S			-	-	0.88	
	KRC245S			-	-	7.2	
	KRC246S			-	-	3.6	

Note : * Characteristic of Transistor Only.

KRC241S~KRC246S



KRC241S~KRC246S



KRC241S~KRC246S

