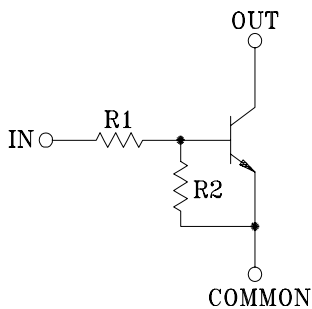


HIGH CURRENT SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

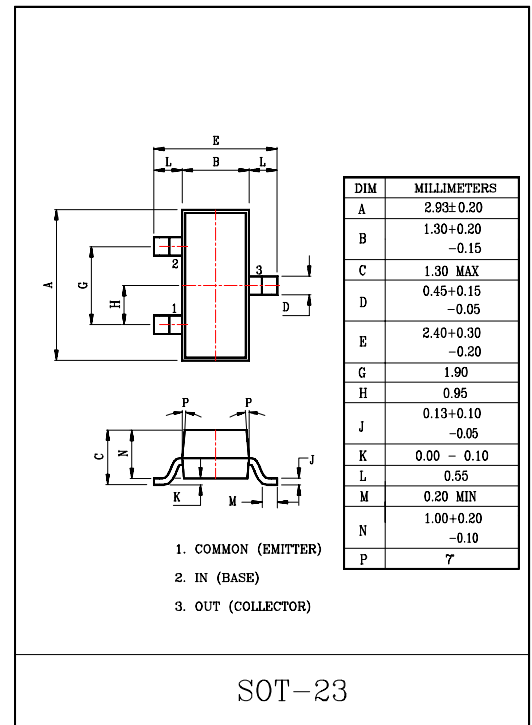
FEATURES

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



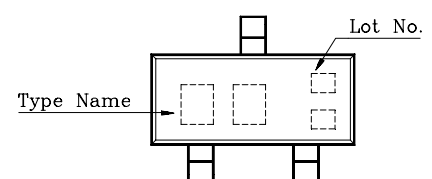
MAXIMUM RATINGS(Ta=25℃)

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	℃
Storage Temperature Range		T _{stg}	-55~150	℃

MARK SPEC

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

Marking



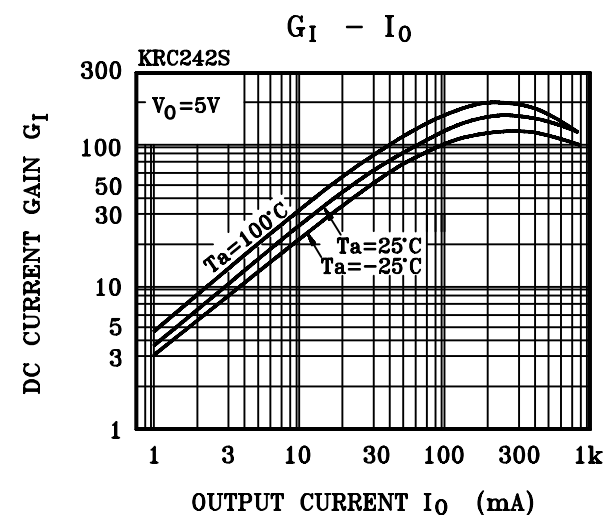
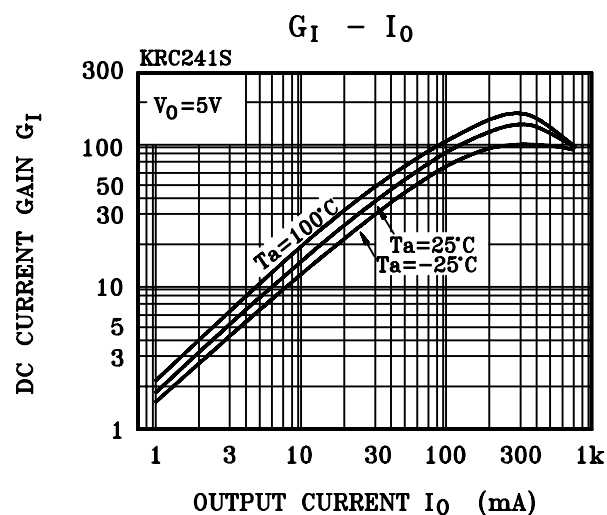
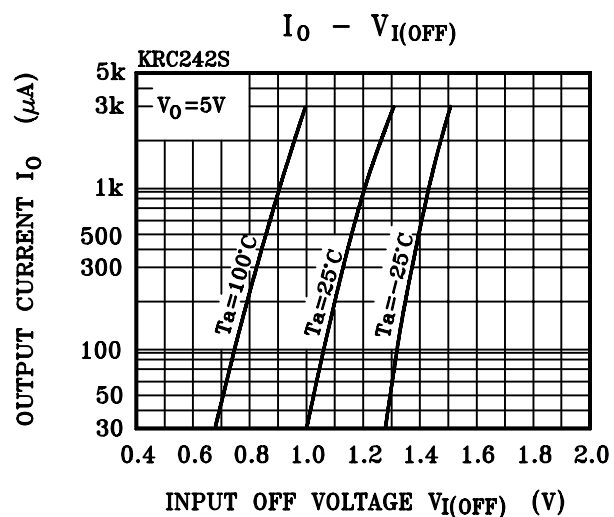
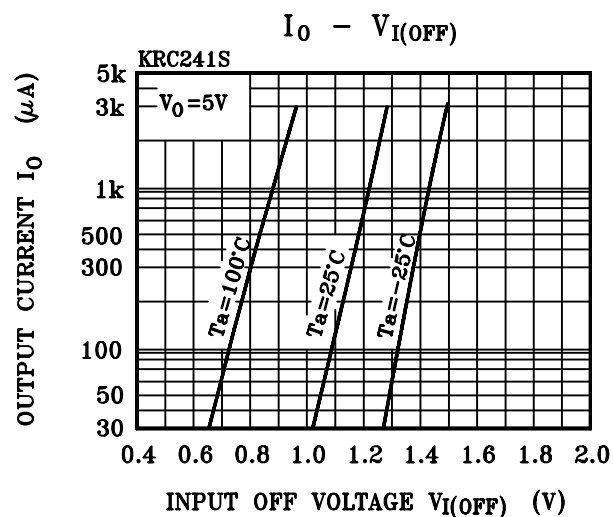
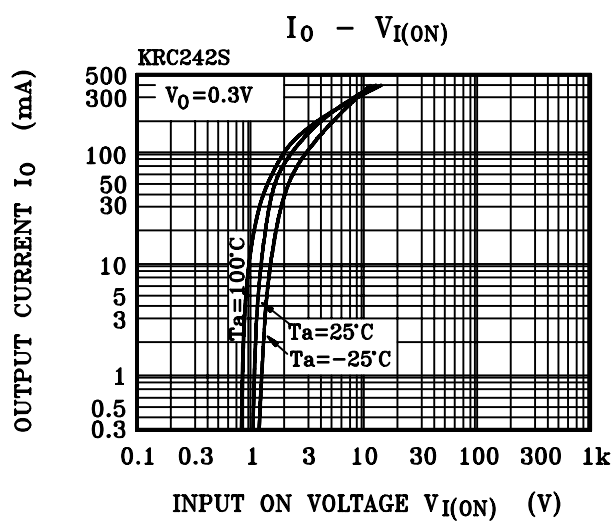
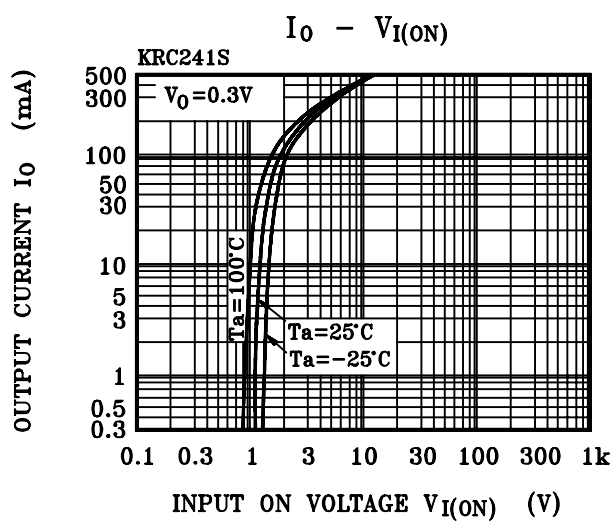
KRC241S ~ KRC246S

ELECTRICAL CHARACTERISTICS (Ta=25°C)

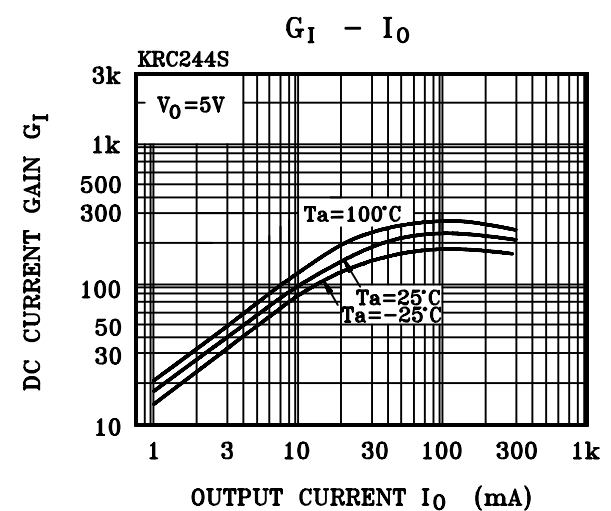
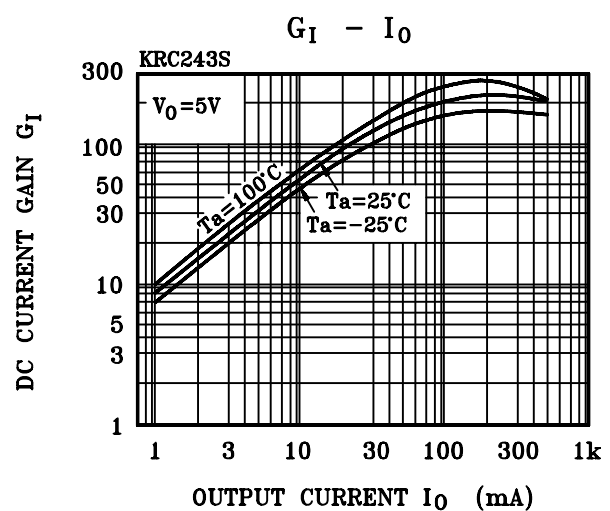
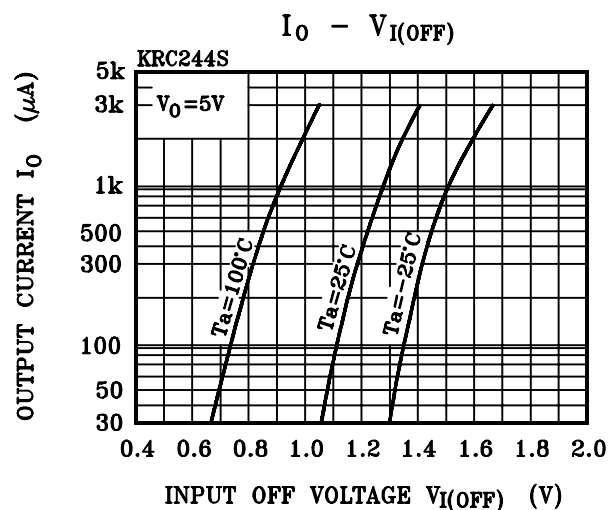
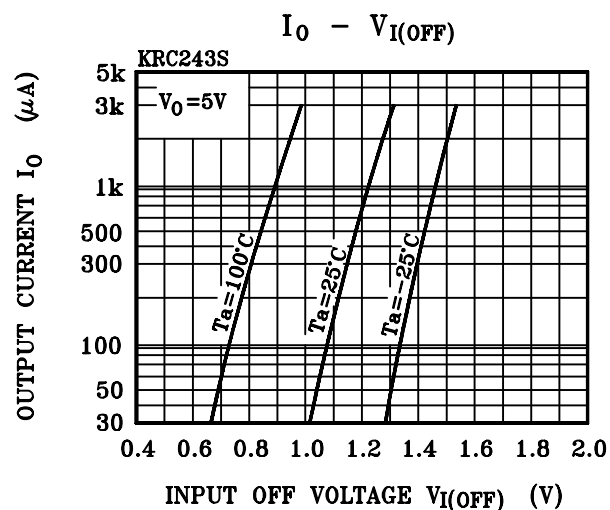
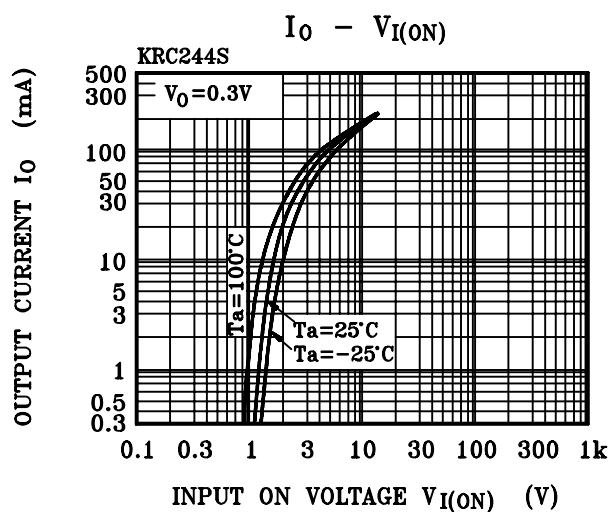
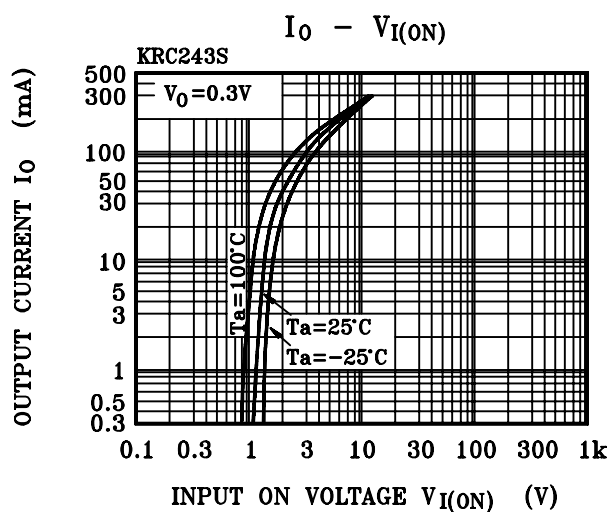
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC241S ~ 246S	$I_{O(OFF)}$	$V_O=30V, V_I=0$	–	–	10	μA
DC Current Gain	KRC241S	G_I	$V_O=5V, I_O=50mA$	33	–	–	
	KRC242S			39	–	–	
	KRC243S			47	–	–	
	KRC244S			56	–	–	
	KRC245S			56	–	–	
	KRC246S			56	–	–	
Output Voltage	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

