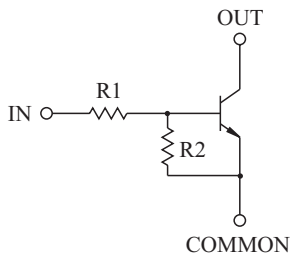


**HIGH CURRENT SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.**

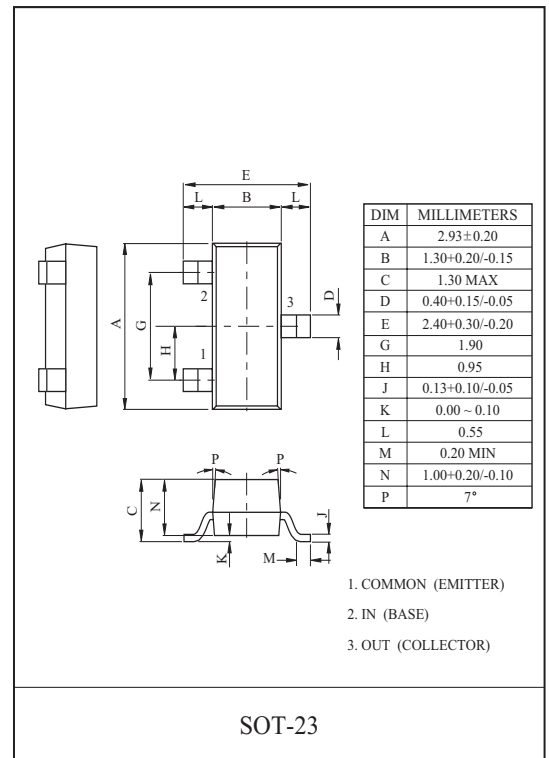
FEATURES

- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Output Current : 800mA.
- Suffix U : Qualified to AEC-Q101
ex) KRC243S-RTK/HU

EQUIVALENT CIRCUIT



TYPE NO.	R1(k)	R2(k)
KRC241S	1	1
KRC242S	2.2	2.2
KRC243S	4.7	4.7
KRC244S	10	10
KRC245S	1	10
KRC246S	2.2	10



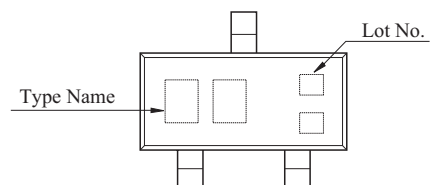
MAXIMUM RATING (Ta=25)

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

MARK SPEC

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

Marking



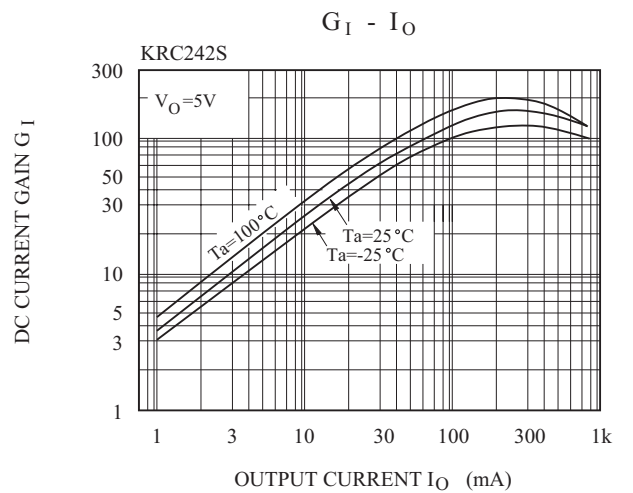
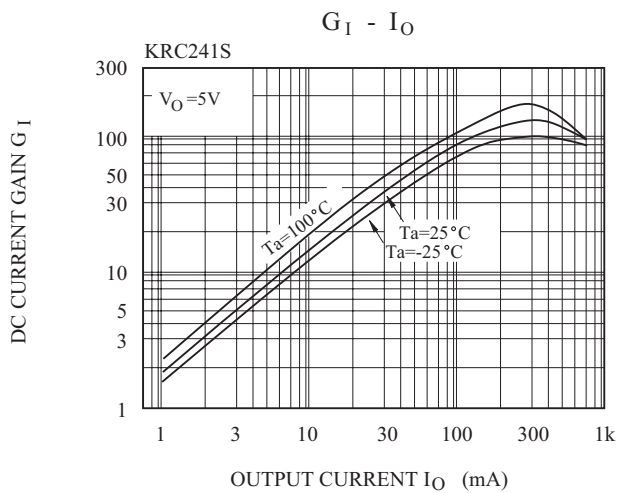
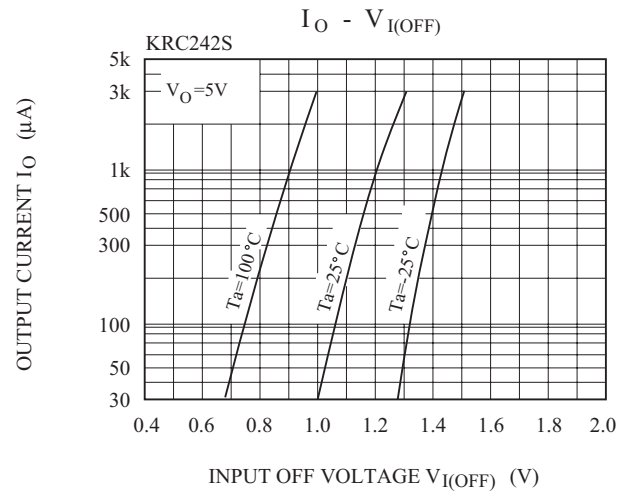
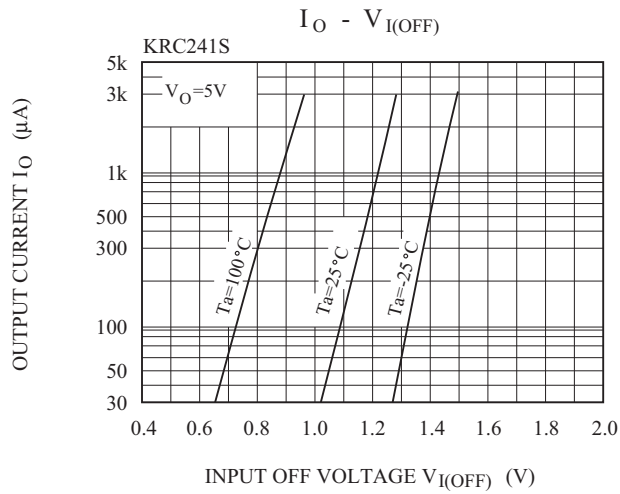
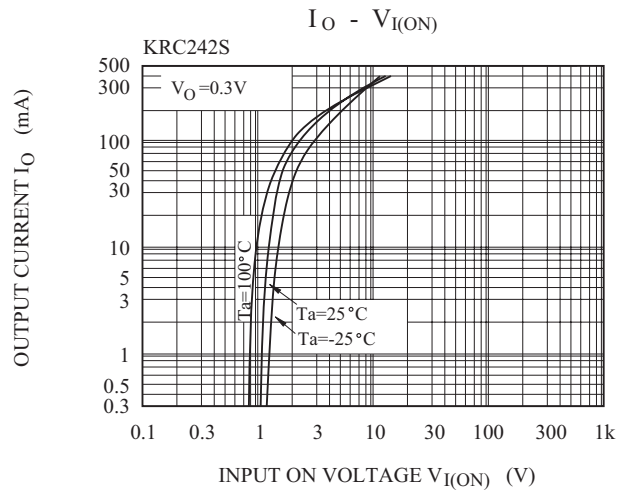
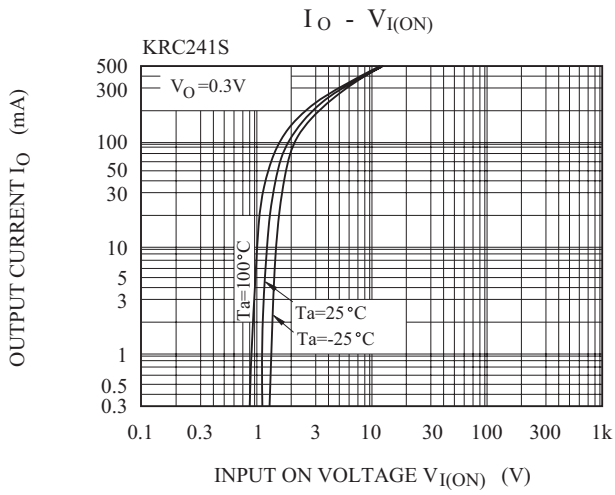
KRC241S~KRC246S

ELECTRICAL CHARACTERISTICS (Ta=25)

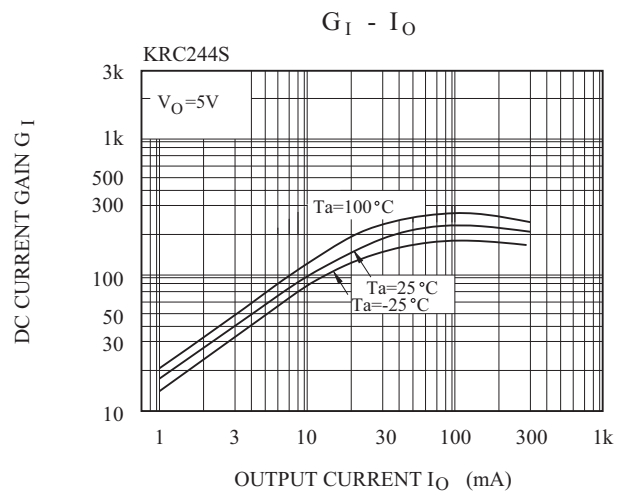
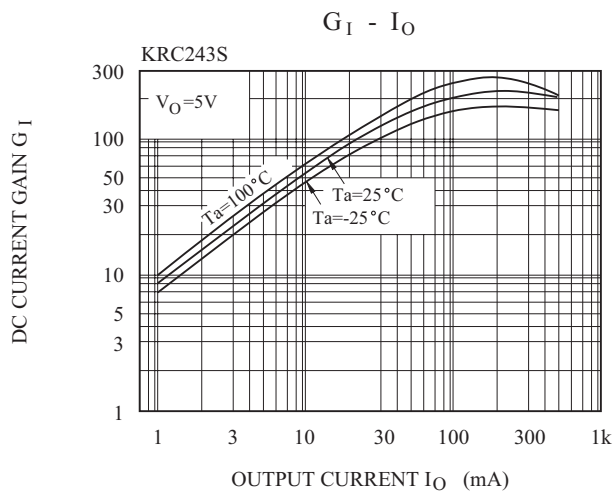
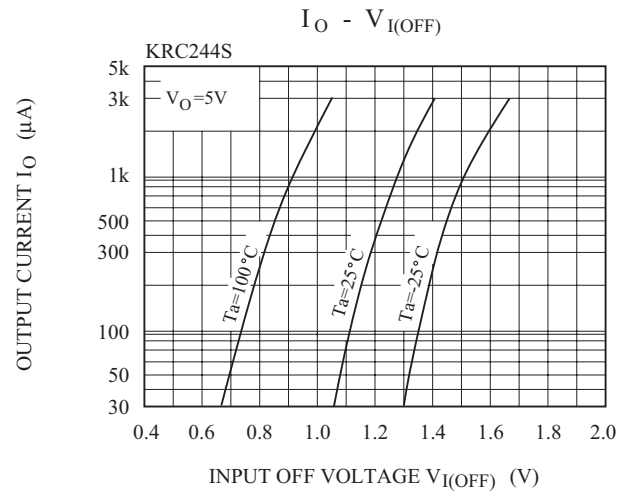
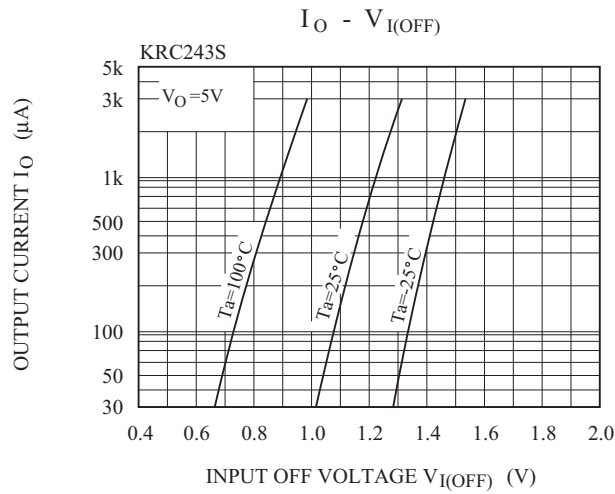
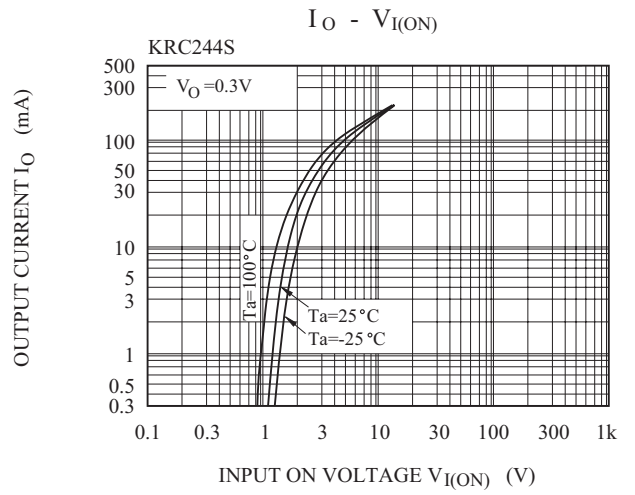
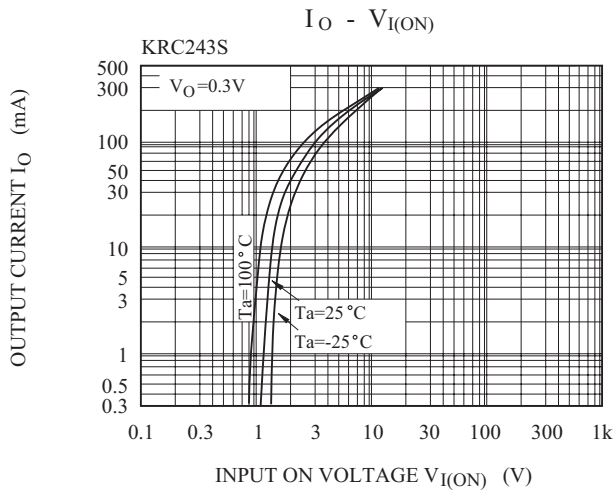
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC241S 246S	$I_{O(OFF)}$	$V_O=30V, V_I=0$	-	-	10	μA
DC Current Gain	KRC241S	G_I	$V_O=5V, I_O=50mA$	33	-	-	
	KRC242S			39	-	-	
	KRC243S			47	-	-	
	KRC244S			56	-	-	
	KRC245S			56	-	-	
	KRC246S			56	-	-	
Output Voltage	KRC241S 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	
Input Resistor	KRC241S	R1	-	0.1	1	1.3	k
	KRC242S			1.54	2.2	2.86	
	KRC243S			3.29	4.7	6.11	
	KRC244S			7	10	13	
	KRC245S			0.7	1	13	
	KRC246S			1.54	2.2	2.86	
Resistor Ratio	KRC241S~244S	R2/R1	-	0.8	1.0	1.2	
	KRC245S			0.08	0.1	0.12	
	KRC246S			3.6	4.5	5.5	

Note : * Characteristic of Transistor Only.

KRC241S~KRC246S



KRC241S~KRC246S



KRC241S~KRC246S

