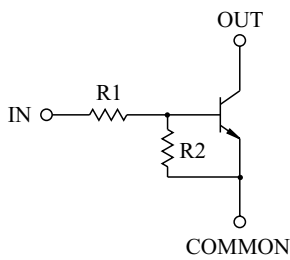


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

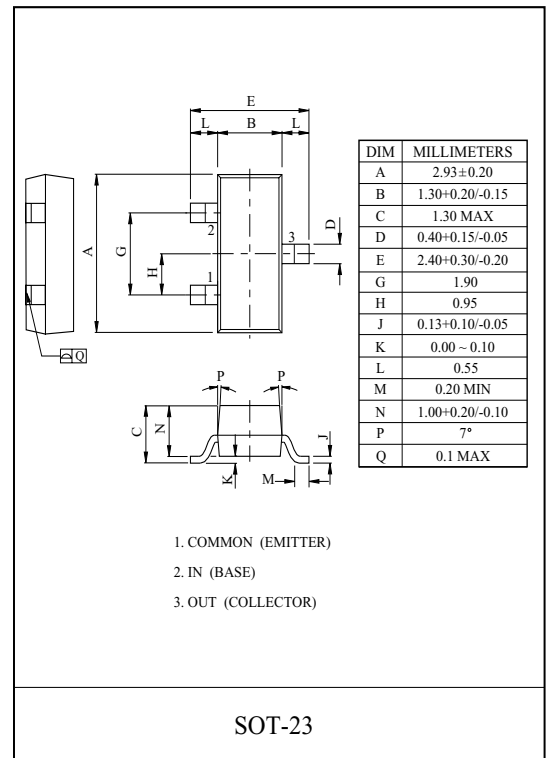
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k)	R2(k)
KRC107S	10	47
KRC108S	22	47
KRC109S	47	22



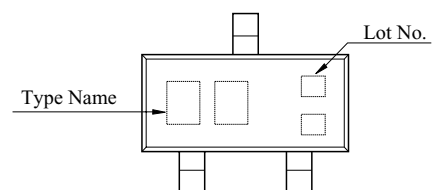
MAXIMUM RATING (Ta=25)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC107S 109S	V_o	50	V
Input Voltage	KRC107S	V_i	30, -6	V
	KRC108S		40, -7	
	KRC109S		40, -15	
Output Current	KRC107S 109S	I_o	100	mA
Power Dissipation		P_D	200	mW
Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 150	

MARK SPEC

TYPE	KRC107S	KRC108S	KRC109S
MARK	NH	NI	NJ

Marking



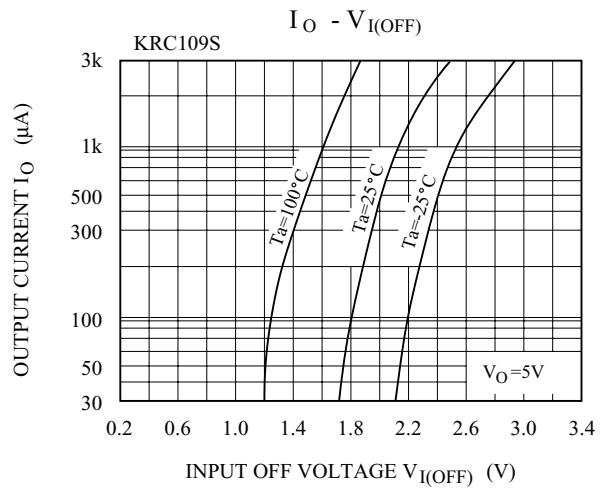
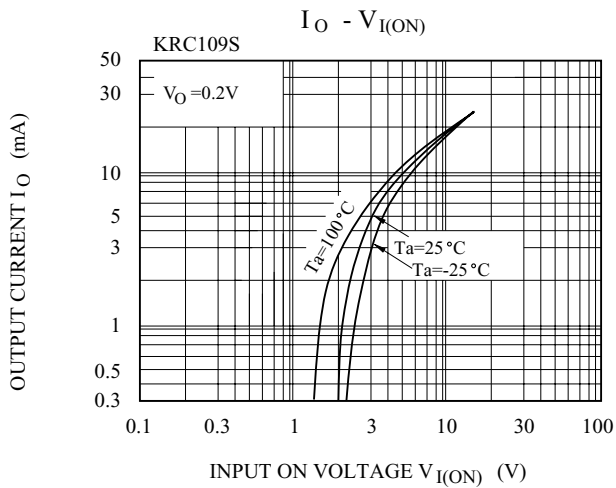
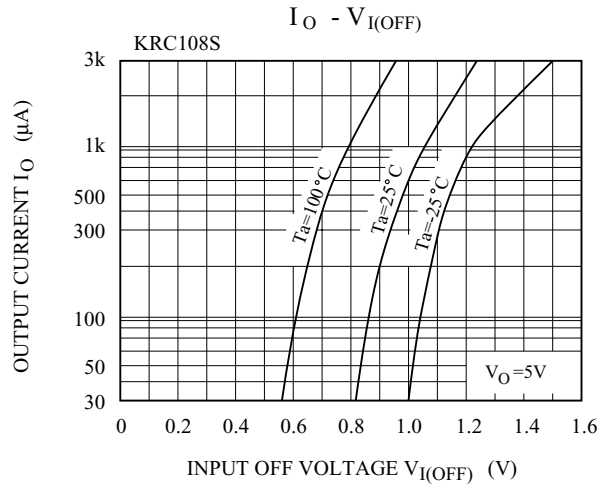
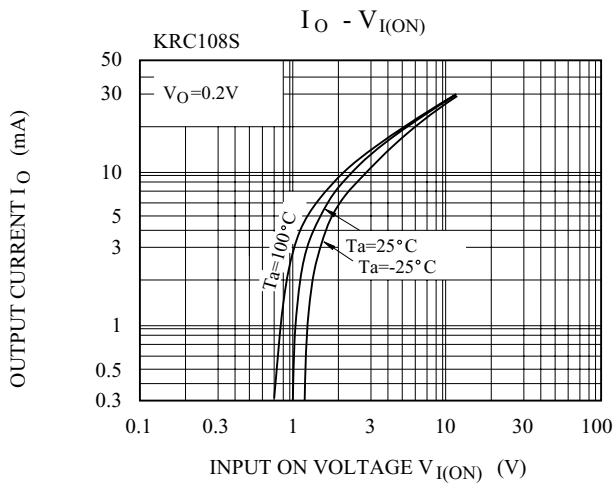
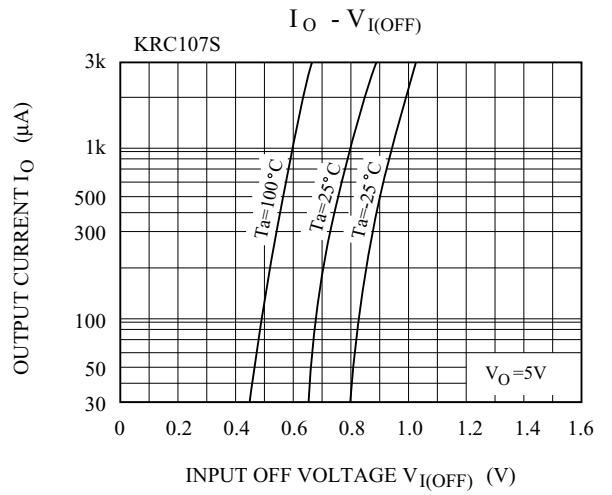
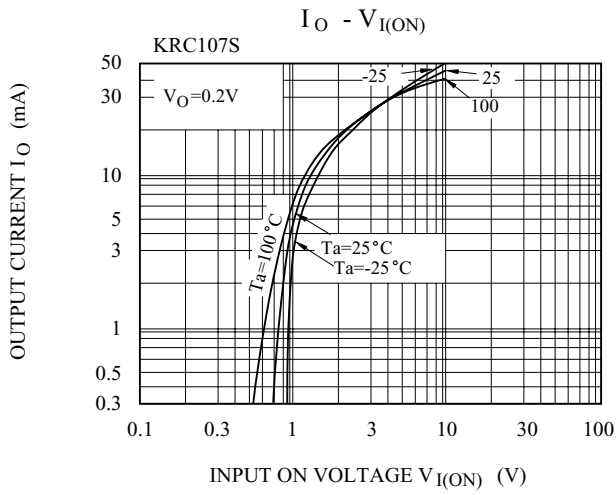
KRC107S~KRC109S

ELECTRICAL CHARACTERISTICS (Ta=25)

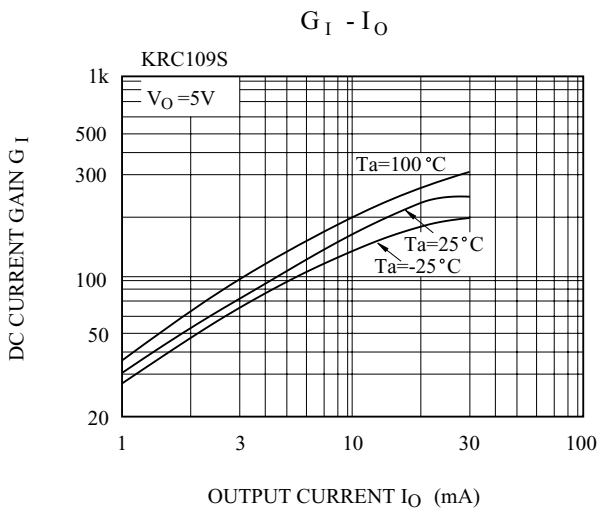
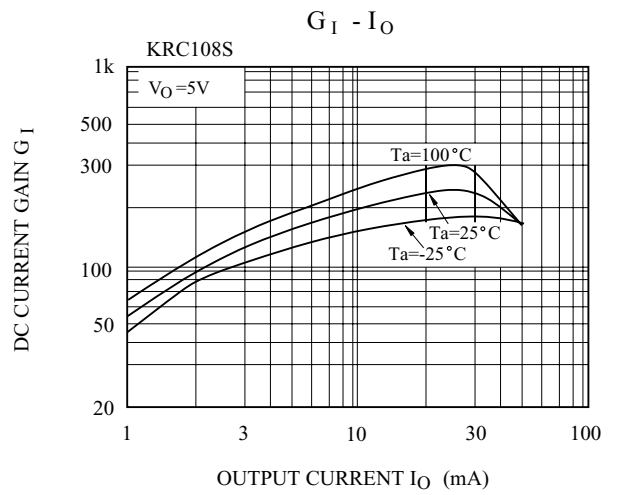
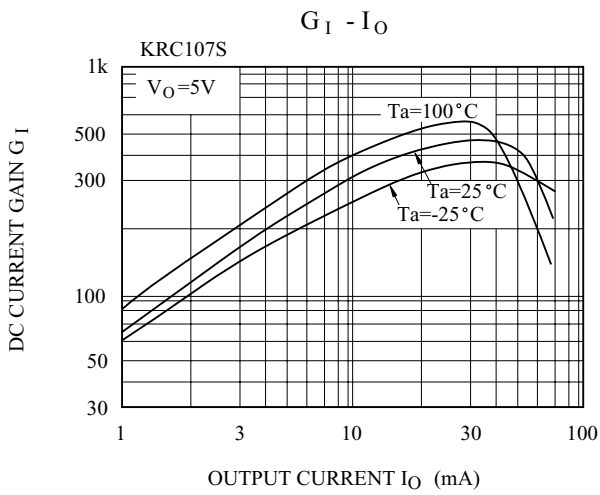
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Output Cut-off Current		KRC107S 109S	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC107S		G_I	$V_O=5V, I_O=10mA$	80	150	-	
	KRC108S				80	150	-	
	KRC109S				70	140	-	
Output Voltage		KRC107S 109S	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC107S		$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.2	1.8	V
	KRC108S				-	1.8	2.6	
	KRC109S				-	3.0	5.8	
Input Voltage (OFF)	KRC107S		$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	0.5	0.75	-	V
	KRC108S				0.6	0.88	-	
	KRC109S				1.5	1.82	-	
Transition Frequency		KRC107S 109S	f_T^*	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current	KRC107S		I_I	$V_I=5V$	-	-	0.88	mA
	KRC108S				-	-	0.36	
	KRC109S				-	-	0.16	
Switching Time	Rise Time	KRC107S	t_r	$V_O=5V, V_{IN}=5V$ $R_L=1k$	-	0.05	-	μs
		KRC108S			-	0.12	-	
		KRC109S			-	0.26	-	
	Storage Time	KRC107S	t_{stg}		-	2.0	-	
		KRC108S			-	2.4	-	
		KRC109S			-	1.5	-	
	Fall Time	KRC107S	t_f		-	0.36	-	
		KRC108S			-	0.4	-	
		KRC109S			-	0.41	-	
Input Resistor	KRC107S		R1	-	7	10	13	k
	KRC108S				15.4	22	28.6	
	KRC109S				32.9	47	61.1	
Resistor Ratio	KRC107S		R2/R1	-	3.7	4.7	5.7	
	KRC108S				1.7	2.1	2.6	
	KRC109S				0.37	0.47	0.57	

Note : * Characteristic of Transistor Only.

KRC107S~KRC109S



KRC107S~KRC109S



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