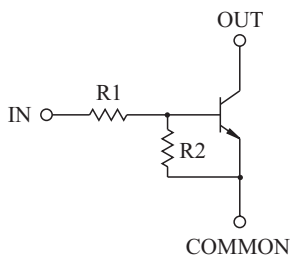


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

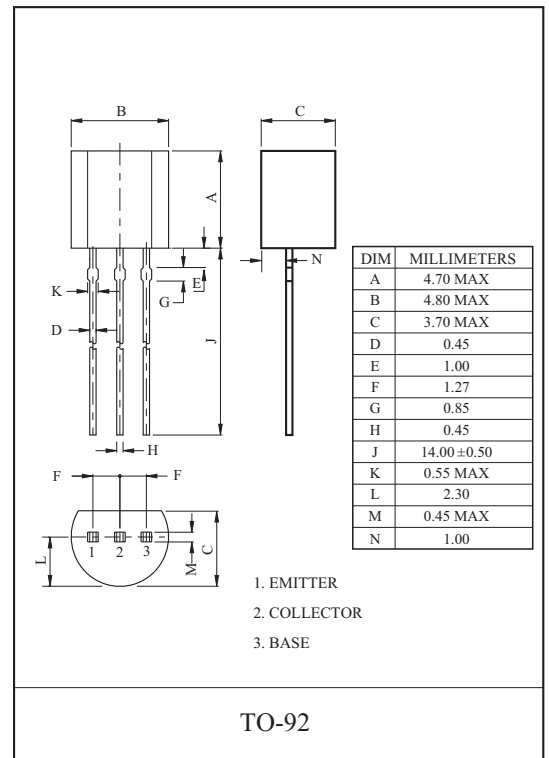
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k)	R2(k)
KRC107	10	47
KRC108	22	47
KRC109	47	22



MAXIMUM RATING (Ta=25)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC107 109	V_o	50	V
Input Voltage	KRC107	V_i	30, -6	V
	KRC108		40, -7	
	KRC109		40, -15	
Output Current	KRC107 109	I_o	100	mA
Power Dissipation		P_D	625	mW
Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 150	

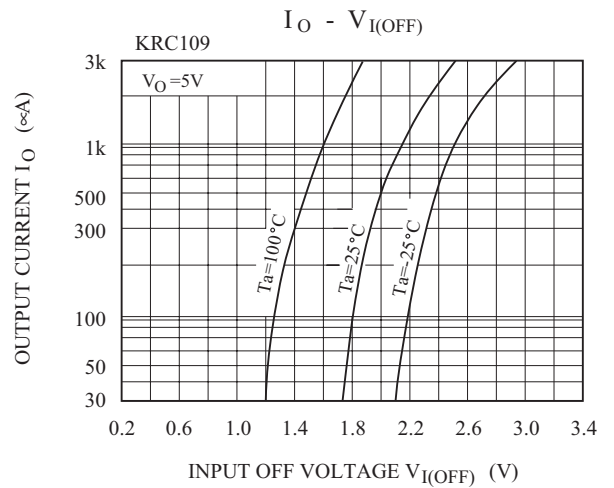
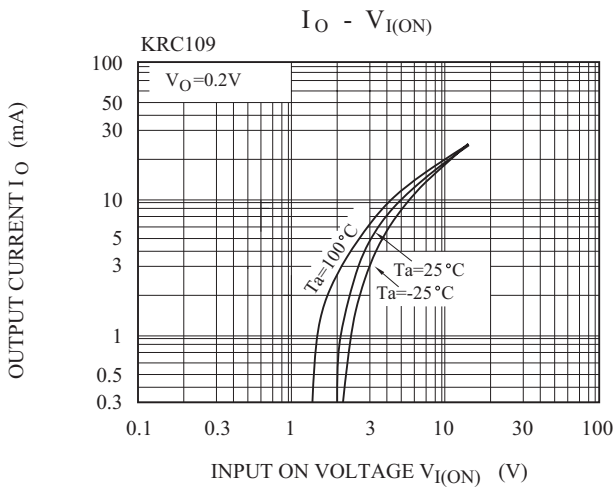
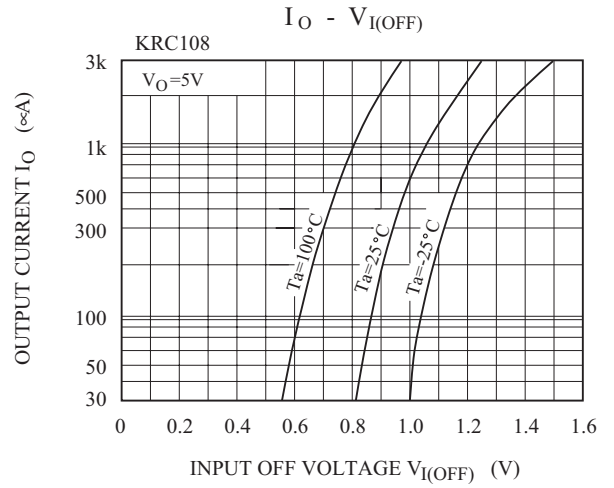
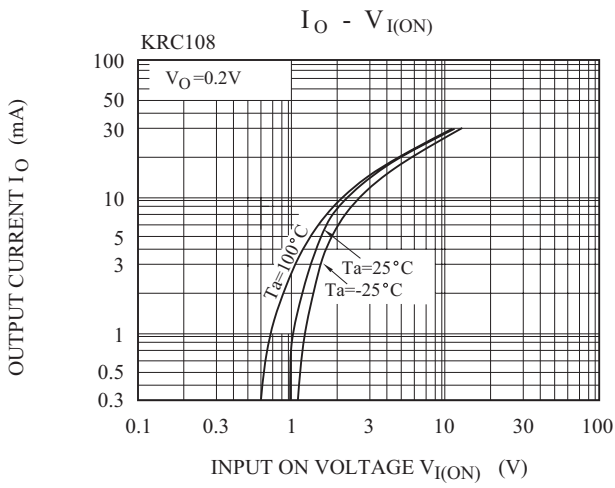
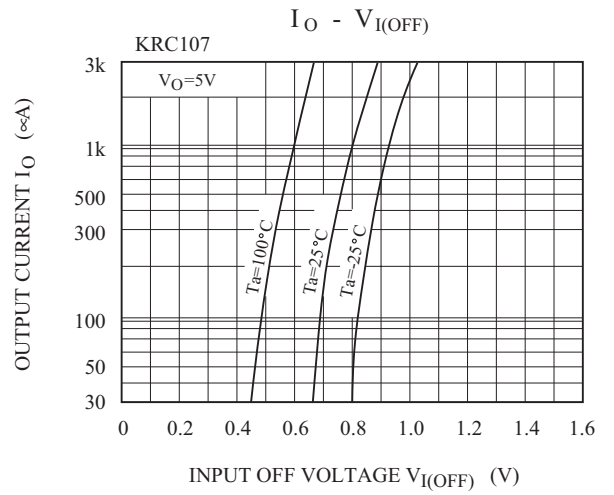
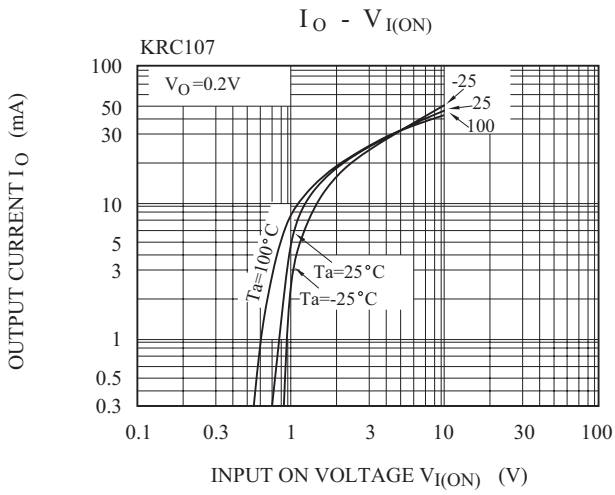
KRC107~KRC109M

ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Output Cut-off Current		KRC107 109	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC107		G_I	$V_O=5V, I_O=10mA$	80	150	-	
	KRC108				80	150	-	
	KRC109				70	140	-	
Output Voltage		KRC107 109	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC107		$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.2	1.8	V
	KRC108				-	1.8	2.6	
	KRC109				-	3.0	5.8	
Input Voltage (OFF)	KRC107		$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	0.5	0.75	-	V
	KRC108				0.6	0.88	-	
	KRC109				1.5	1.82	-	
Transition Frequency		KRC107 109	f_T^*	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current	KRC107		I_I	$V_I=5V$	-	-	0.88	mA
	KRC108				-	-	0.36	
	KRC109				-	-	0.16	
Switching Time	Rise Time	KRC107	t_r	$V_O=5V, V_{IN}=5V$ $R_L=1k$	-	0.05	-	μs
		KRC108			-	0.12	-	
		KRC109			-	0.26	-	
	Storage Time	KRC107	t_{stg}		-	2.0	-	
		KRC108			-	2.4	-	
		KRC109			-	1.5	-	
	Fall Time	KRC107	t_f		-	0.36	-	
		KRC108			-	0.4	-	
		KRC109			-	0.41	-	
Input Resistor	KRA107		R1	-	7	10	13	k
	KRA108				15.4	22	28.6	
	KRA109				32.9	47	61.1	
Resistor Ratio	KRA107		R2/R1	-	3.7	4.7	5.7	
	KRA108				1.7	2.1	2.6	
	KRA109				0.37	0.47	0.57	

Note : * Characteristic of Transistor Only.

KRC107~KRC109



KRC107~KRC109

