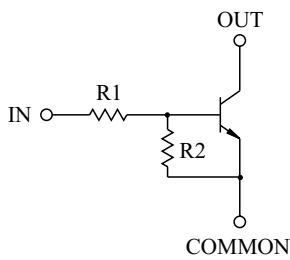


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

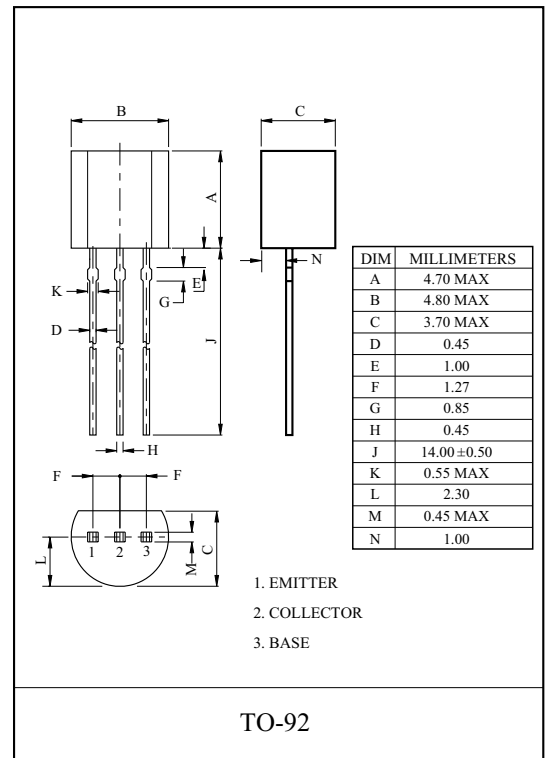
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process

### EQUIVALENT CIRCUIT



### BIAS RESISTOR VALUES

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



### MAXIMUM RATING (Ta=25 $^{\circ}$ C)

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	

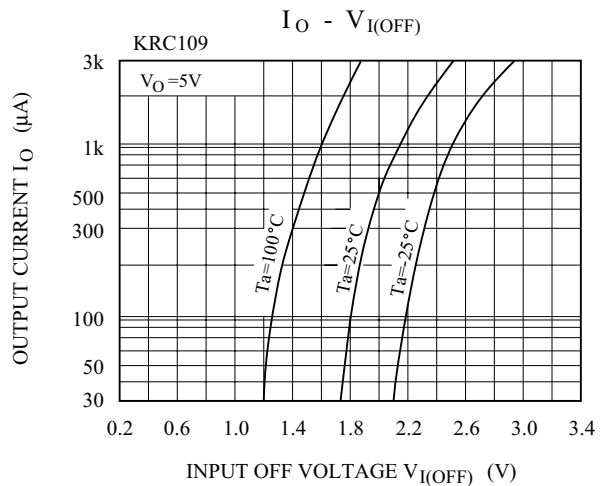
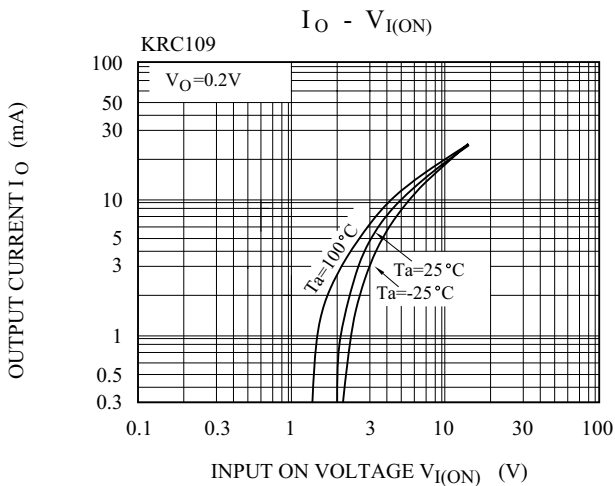
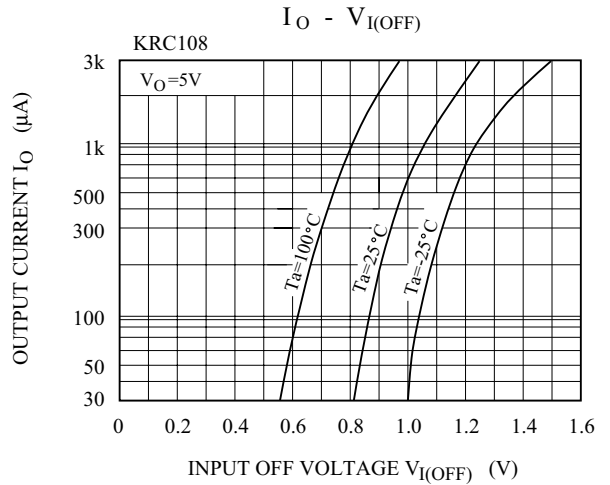
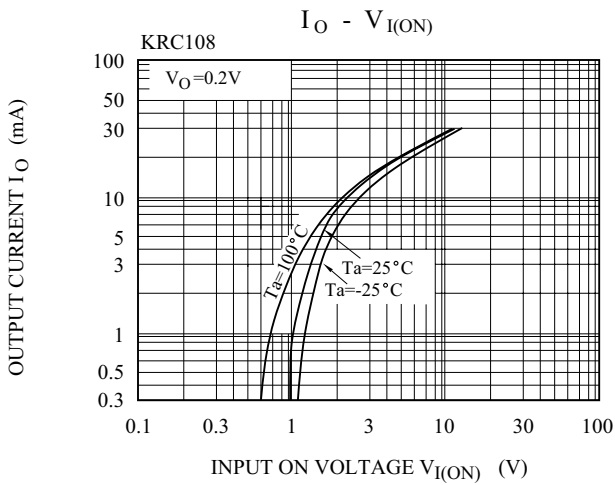
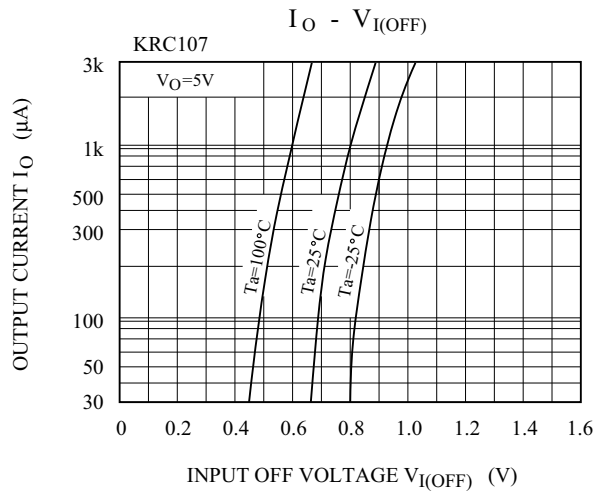
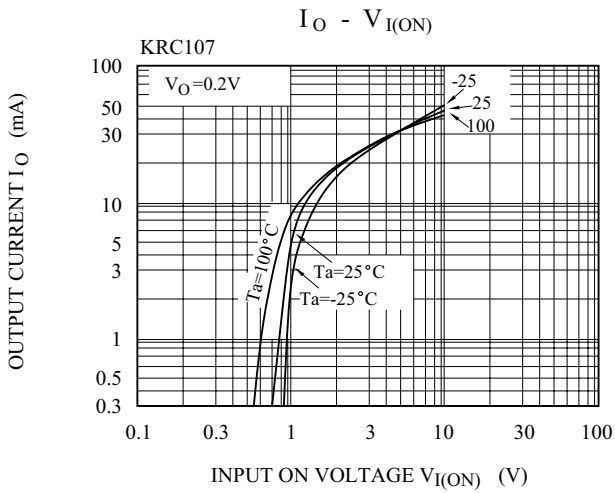
# KRC107~KRC109

## 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	
Input Resistor	KRC107		R1	-	7	10	13	k
	KRC108				15.4	22	28.6	
	KRC109				32.9	47	61.1	
Input Resistor	KRC107		R2	-	32.9	47	61.1	k
	KRC108				32.9	47	61.1	
	KRC109				15.4	22	28.6	
Switching Time	Rise Time	KRC107	$t_r$	$V_O=5V, V_{IN}=5V$ $R_L=1k$	-	0.05	-	$\mu s$
		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	-	

Note : \* Characteristic of Transistor Only.

# KRC107~KRC109



# KRC107~KRC109

