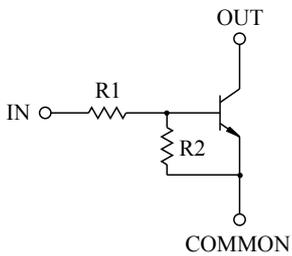


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

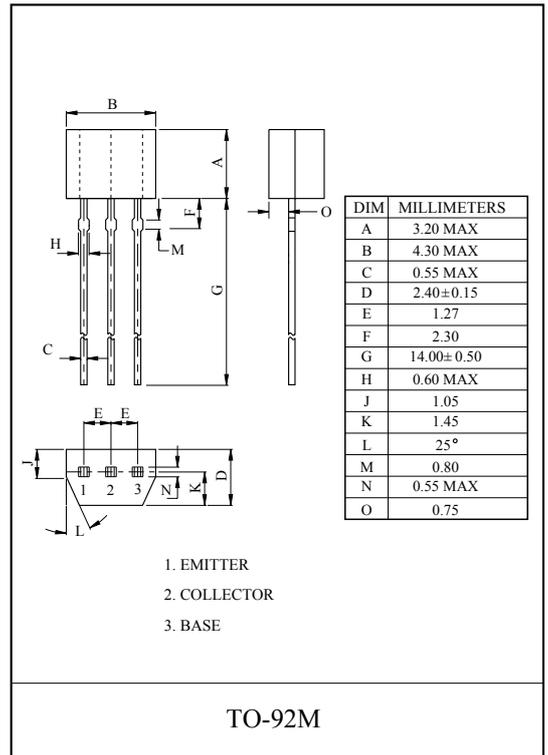
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process

### EQUIVALENT CIRCUIT



### BIAS RESISTOR VALUES

TYPE NO.	R1(k $\Omega$ )	R2(k $\Omega$ )
KRC107M	10	47
KRC108M	22	47
KRC109M	47	22



### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC107M~109M	$V_O$	50	V
Input Voltage	KRC107M	$V_I$	30, -6	V
	KRC108M		40, -7	
	KRC109M		40, -15	
Output Current	KRC107M~109M	$I_O$	100	mA
Power Dissipation		$P_D$	400	mW
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-55 ~ 150	°C

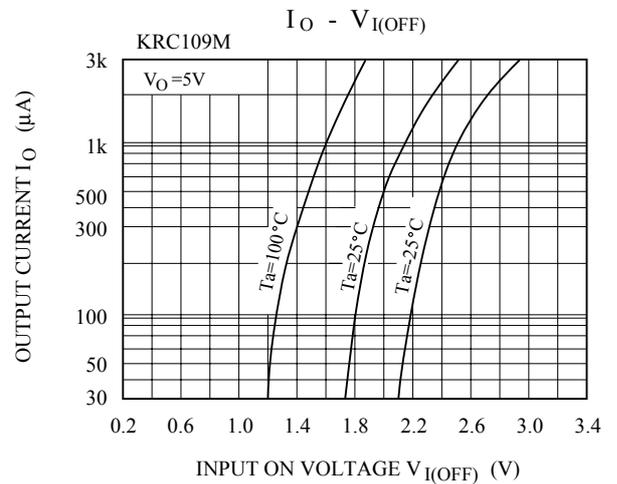
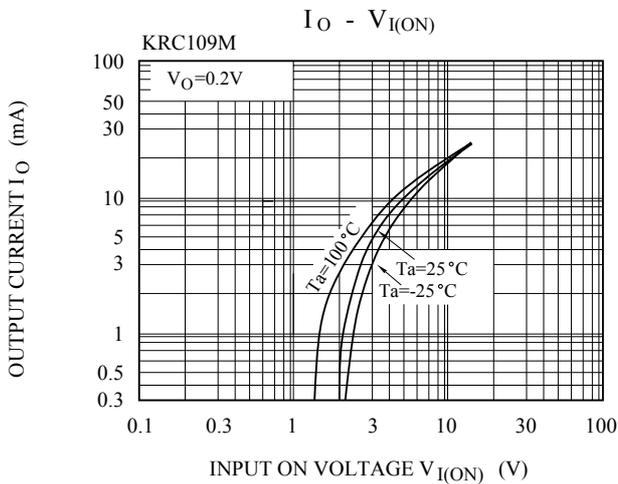
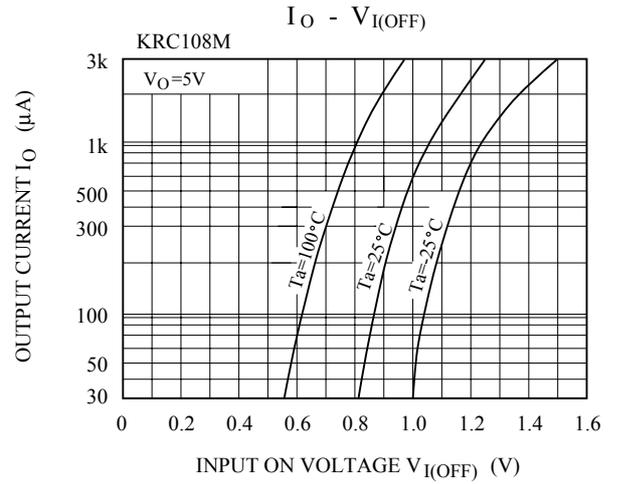
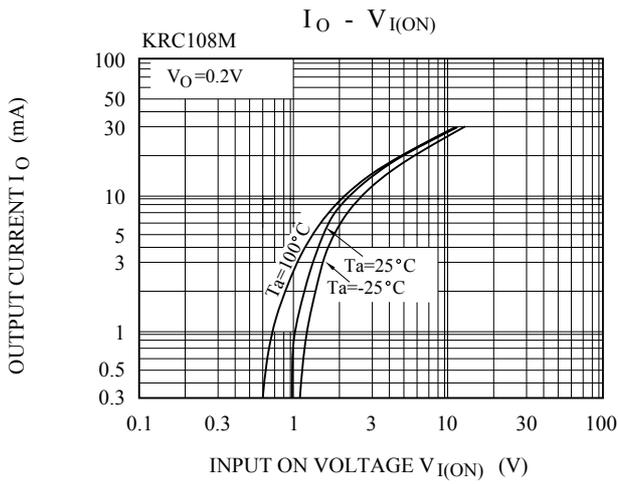
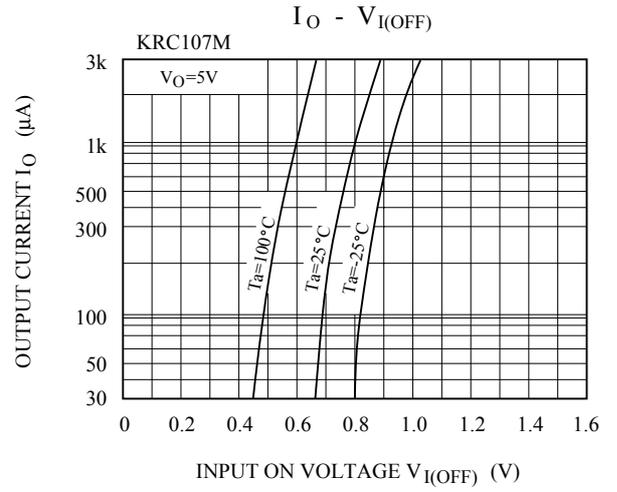
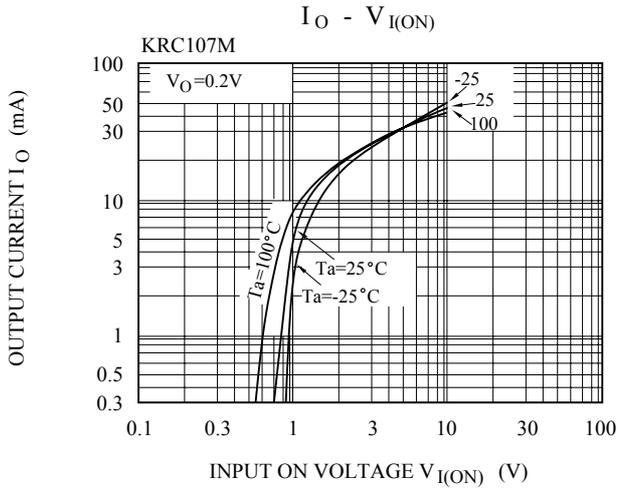
# KRC107M~KRC109M

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

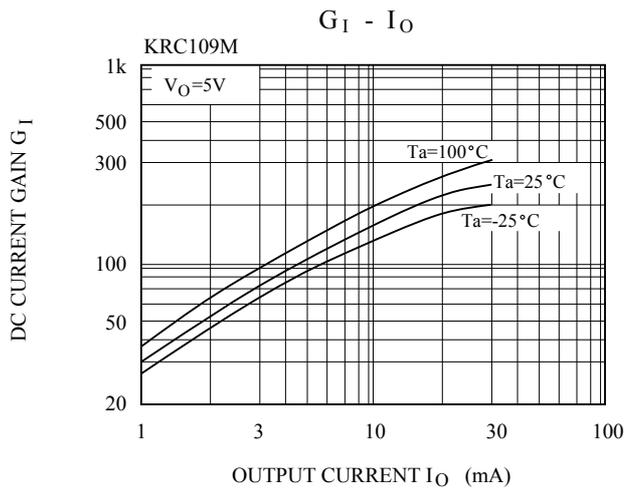
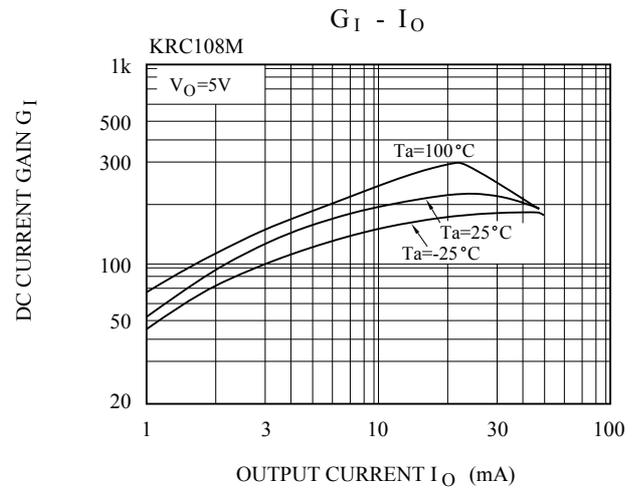
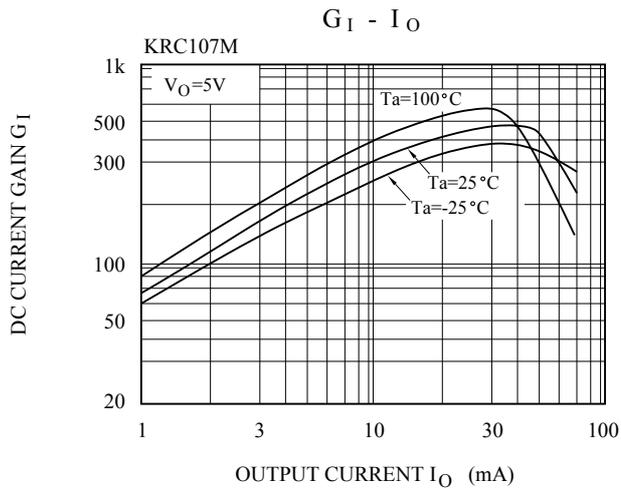
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Output Cut-off Current		KRC107M~109M	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain		KRC107M	$G_I$	$V_O=5V, I_O=10mA$	80	150	-	
		KRC108M			80	150	-	
		KRC109M			70	140	-	
Output Voltage		KRC107M~109M	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)		KRC107M	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.2	1.8	V
		KRC108M			-	1.8	2.6	
		KRC109M			-	3.0	5.8	
Input Voltage (OFF)		KRC107M	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	0.5	0.75	-	V
		KRC108M			0.6	0.88	-	
		KRC109M			1.5	1.82	-	
Transition Frequency		KRC107M~109M	$f_T^*$	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current		KRC107M	$I_I$	$V_I=5V$	-	-	0.88	mA
		KRC108M			-	-	0.36	
		KRC109M			-	-	0.16	
Switching Time	Rise Time	KRC107M	$t_r$	$V_O=5V, V_{IN}=5V$ $R_L=1k\Omega$	-	0.05	-	$\mu S$
		KRC108M			-	0.12	-	
		KRC109M			-	0.26	-	
	Storage Time	$t_{stg}$	KRC107M		-	2.0	-	
			KRC108M		-	2.4	-	
			KRC109M		-	1.5	-	
	Fall Time	$t_f$	KRC107M		-	0.36	-	
			KRC108M		-	0.4	-	
			KRC109M		-	0.41	-	

Note : \* Characteristic of Transistor Only.

# KRC107M~KRC109M



# KRC107M~KRC109M



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Datasheets for electronics components.