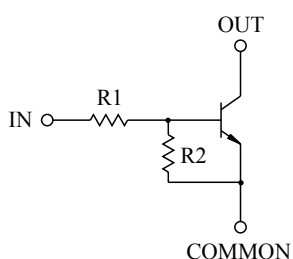


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

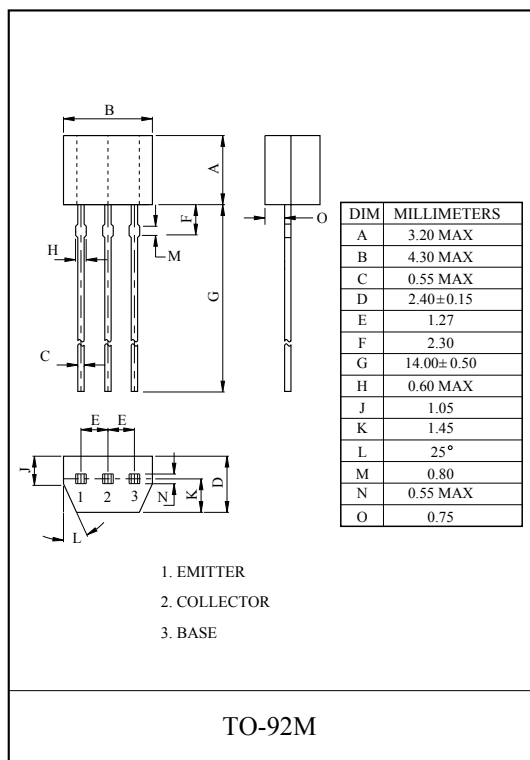
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRC107M	10	47
KRC108M	22	47
KRC109M	47	22



MAXIMUM RATING (Ta=25℃)

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	℃
Storage Temperature Range		T_{stg}	-55 ~ 150	℃

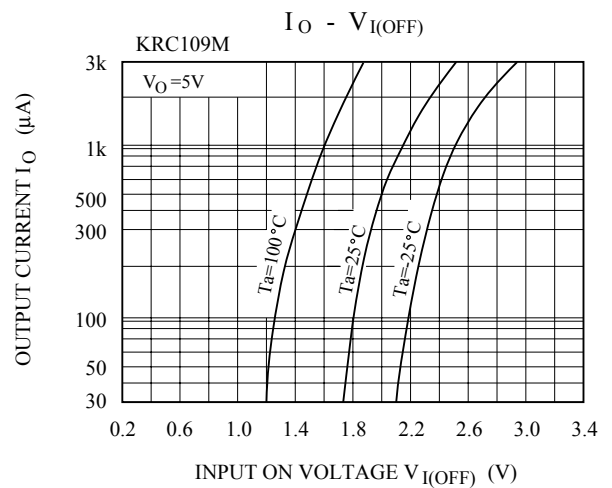
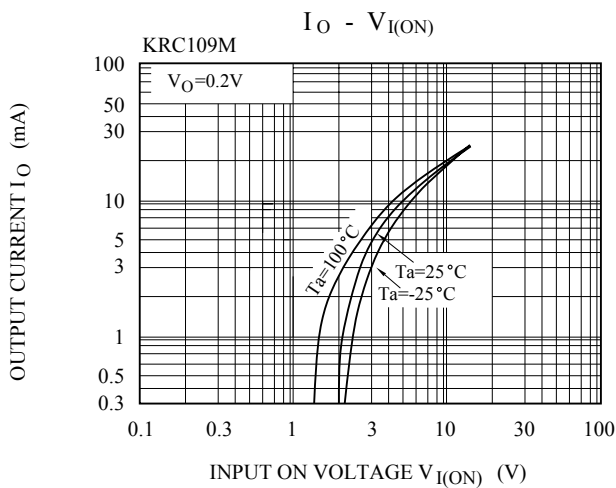
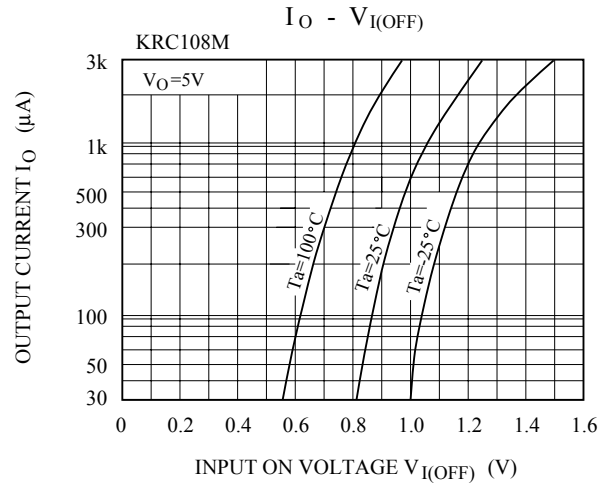
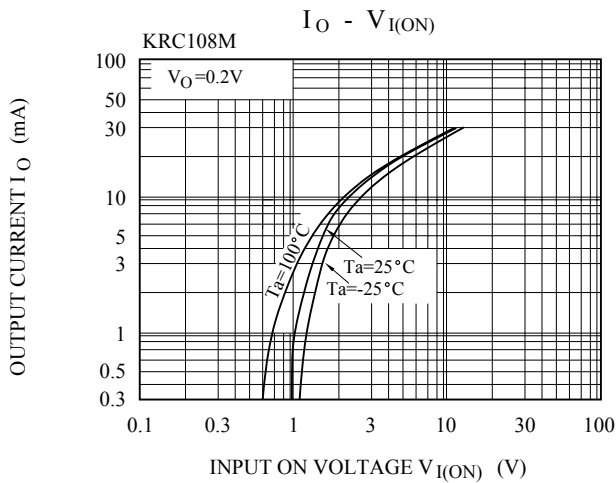
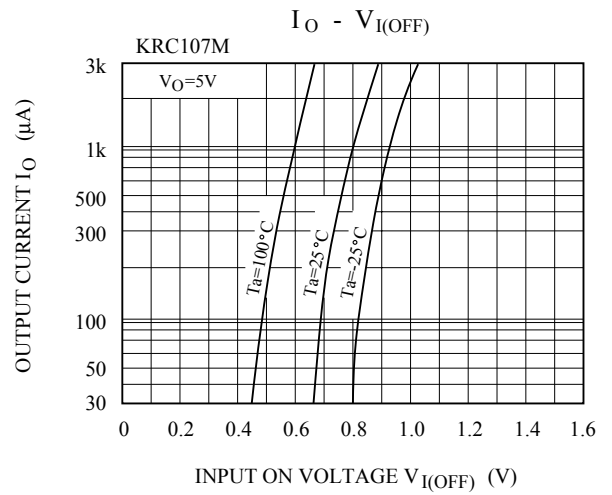
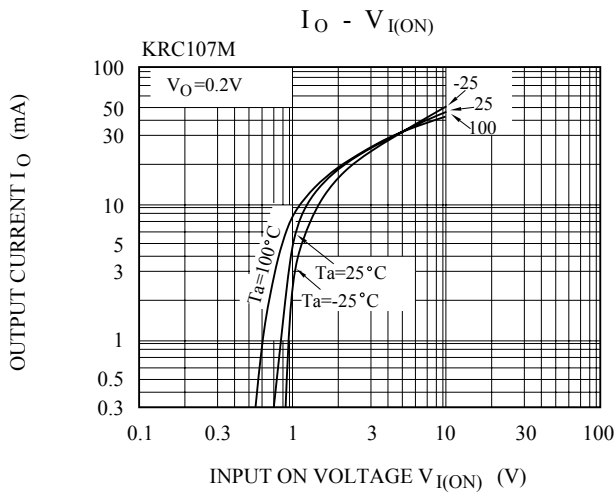
KRC107M~KRC109M

ELECTRICAL CHARACTERISTICS (Ta=25℃)

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 Votlage (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 =1kΩ	-	0.05	-	μS	
		KRC108M			-	0.12	-		
		KRC109M			-	0.26	-		
	Storage Time	KRC107M			t _{stg}	-	2.0		-
		KRC108M				-	2.4		-
		KRC109M				-	1.5		-
	Fall Time	KRC107M			t _f	-	0.36		-
		KRC108M				-	0.4		-
		KRC109M				-	0.41		-

Note : * Characteristic of Transistor Only.

KRC107M~KRC109M



KRC107M~KRC109M

