

查询KRC107M供应商



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SEMICONDUCTOR TECHNICAL DATA

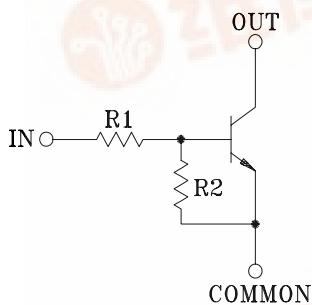
**KRC107M ~
KRC109M**
EPITAXIAL PLANAR NPN TRANSISTOR

SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

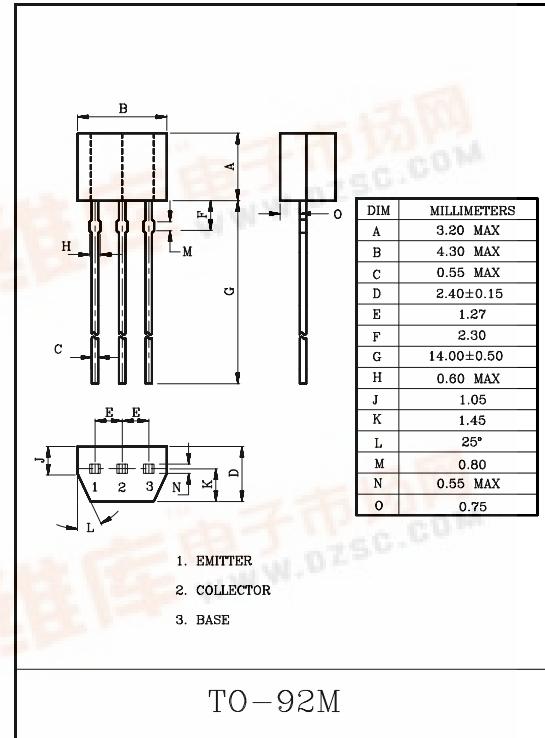
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

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



MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Output Voltage	V _O	50	V
Input Voltage	KRC107M	30, -6	V
	KRC108M	40, -7	
	KRC109M	40,-15	
Output Current	I _O	100	mA
Power Dissipation	P _D	400	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C

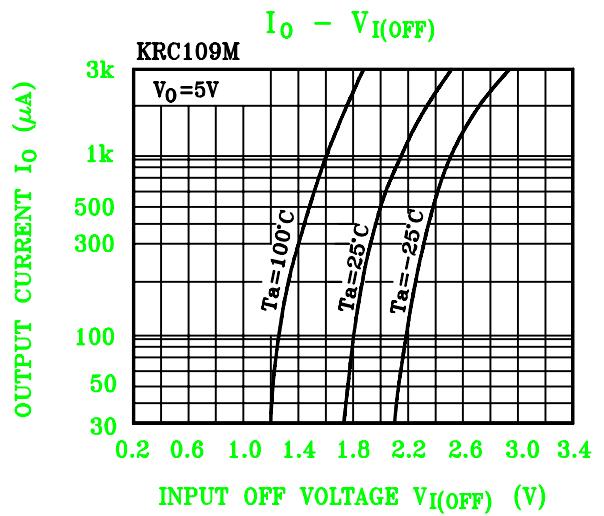
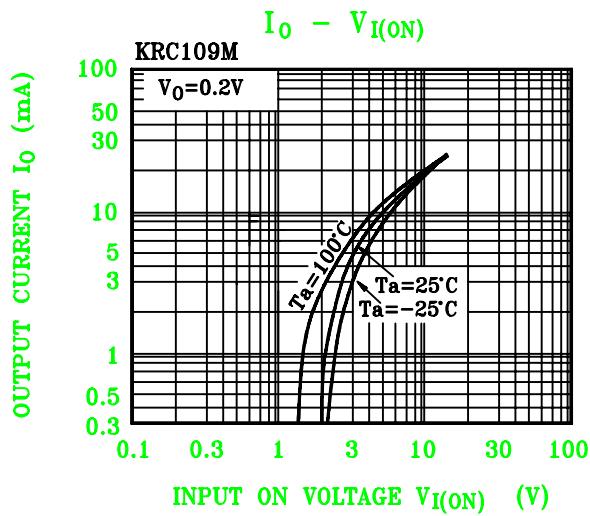
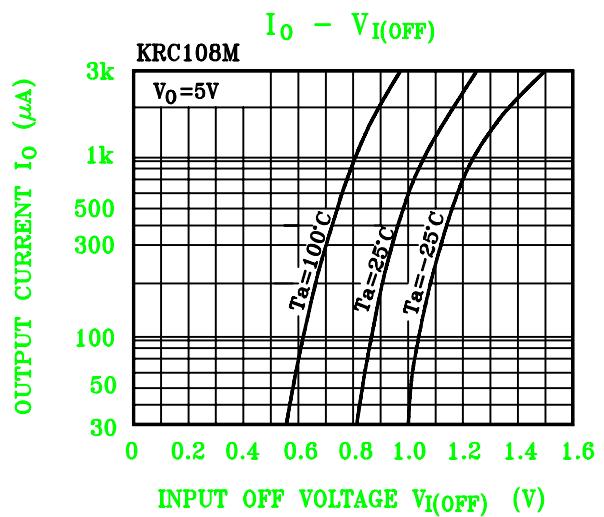
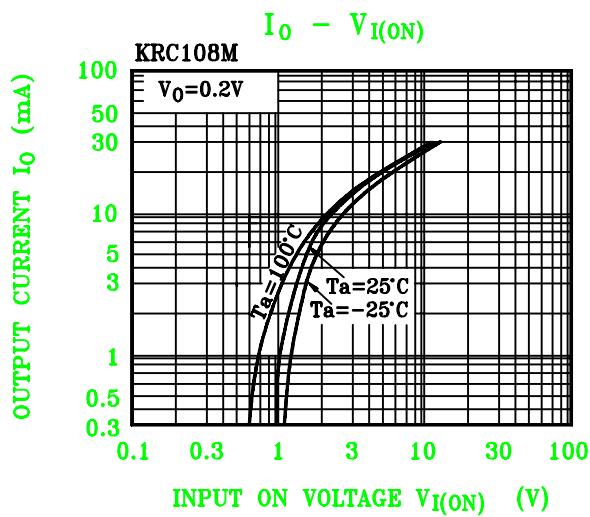
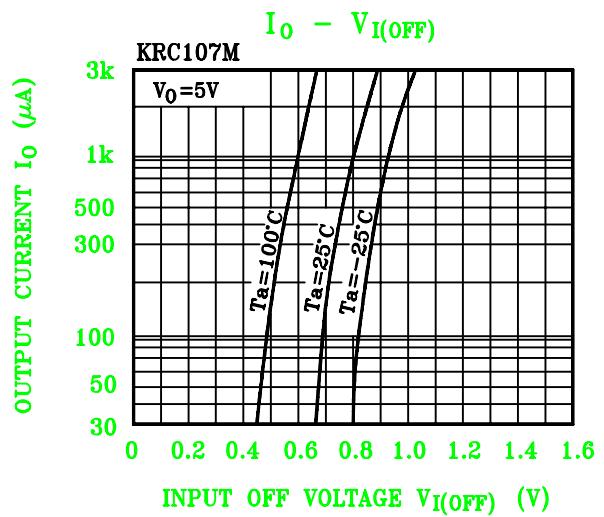
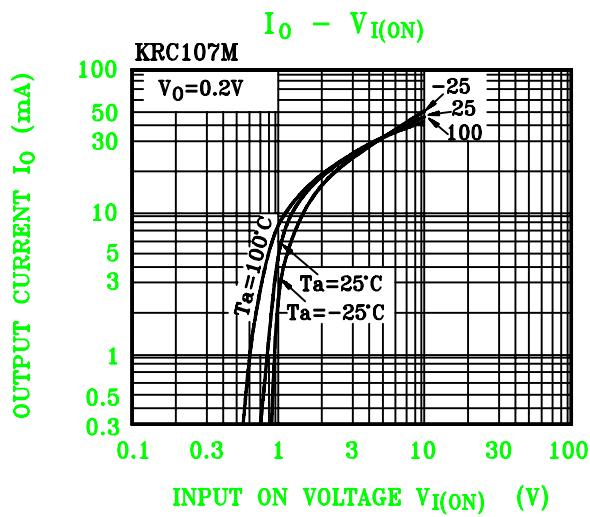
KRC107M ~ KRC109M

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 _f = 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	t _r	V _O =5V V _{IN} =5V R _L =1kΩ	-	0.05	-	μS	
				-	0.12	-		
				-	0.26	-		
	Storage Time	t _{stg}		-	2.0	-		
				-	2.4	-		
				-	1.5	-		
	Fall Time	t _f		-	0.36	-		
				-	0.4	-		
				-	0.41	-		

Note : * Characteristic of Transistor Only

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