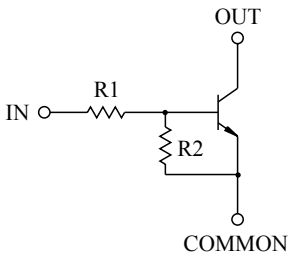


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

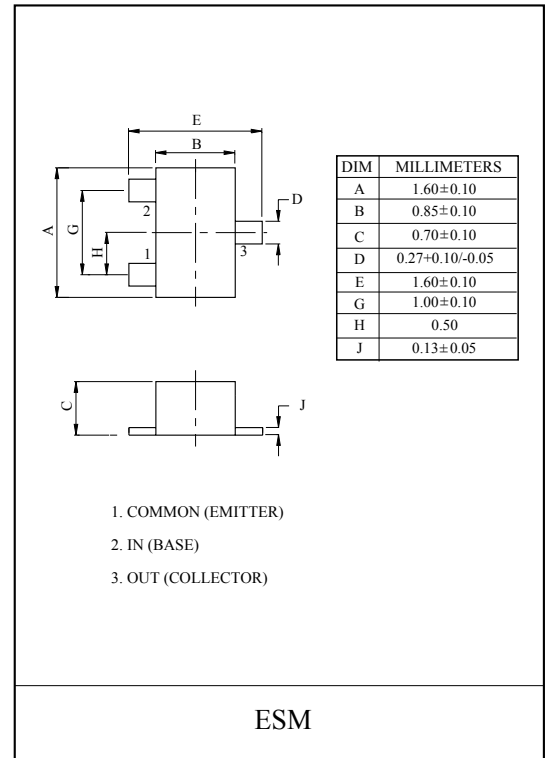
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process
- High Packing Density.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRC407E	10	47
KRC408E	22	47
KRC409E	47	22



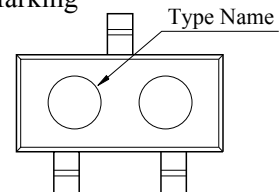
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC407E ~ 409E	V_O	50	V
Input Voltage	KRC407E	V_I	30, -6	V
	KRC408E		40, -7	
	KRC409E		40, -15	
Output Current	KRC407E ~ 409E	I_O	100	mA
Power Dissipation		P_D	100	mW
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55 ~ 150	°C

MARK SPEC

TYPE	KRC407E	KRC408E	KRC409E
MARK	NH	NI	NJ

Marking



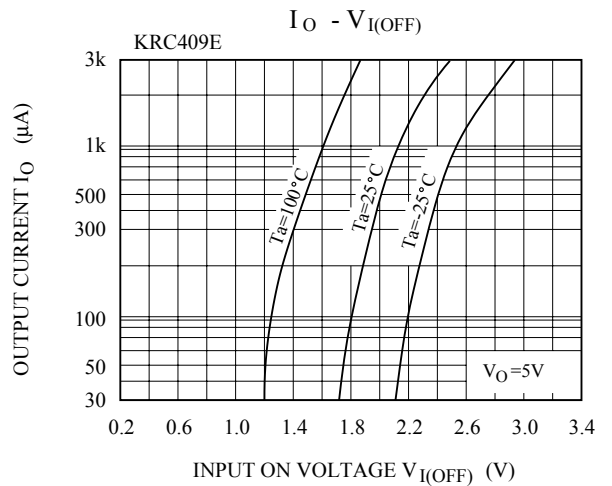
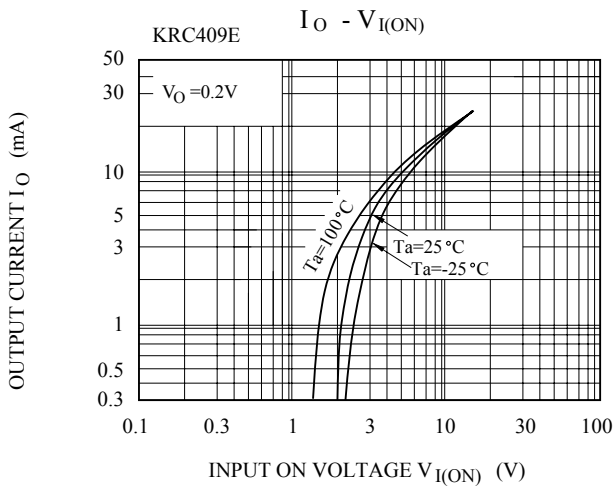
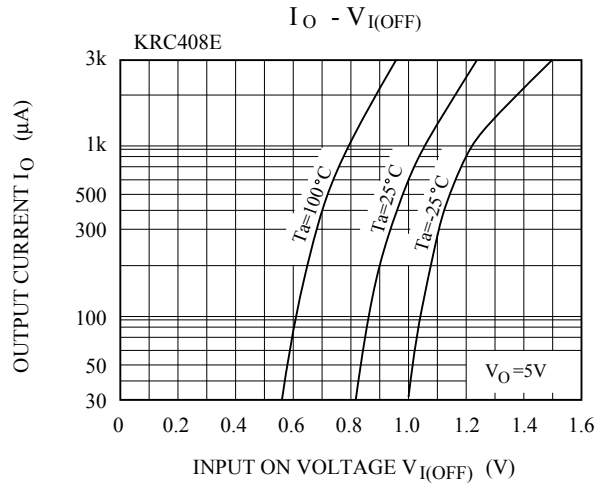
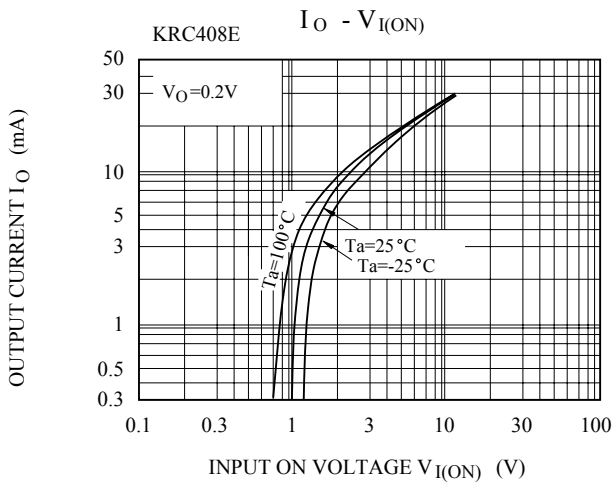
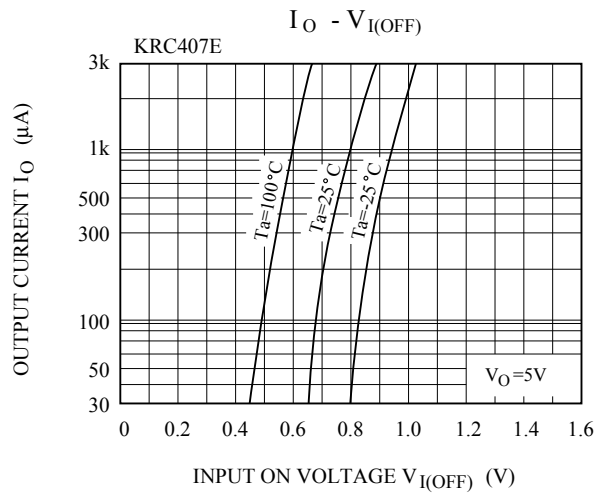
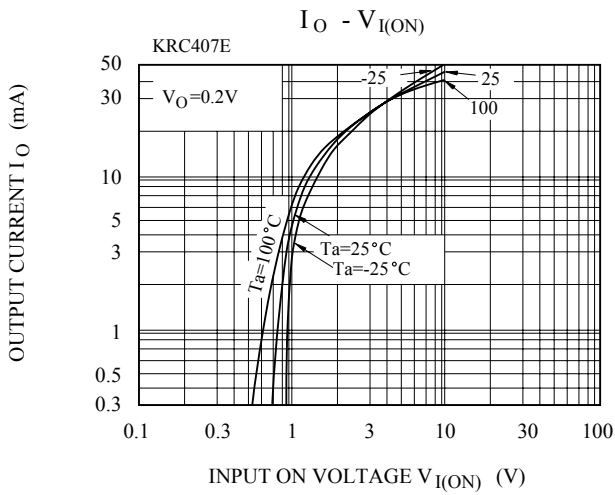
KRC407E~KRC409E

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Output Cut-off Current		KRC407E~409E	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC407E		G_I	$V_O=5V, I_O=10mA$	80	150	-	
	KRC408E				80	150	-	
	KRC409E				70	140	-	
Output Voltage		KRC407E~409E	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC407E		$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.2	1.8	V
	KRC408E				-	1.8	2.6	
	KRC409E				-	3.0	5.8	
Input Voltage (OFF)	KRC407E		$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	0.5	0.75	-	V
	KRC408E				0.6	0.88	-	
	KRC409E				1.5	1.82	-	
Transition Frequency		KRC407E~409E	f_T^*	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current	KRC407E		I_I	$V_I=5V$	-	-	0.88	mA
	KRC408E				-	-	0.36	
	KRC409E				-	-	0.16	
Switching Time	Rise Time	KRC407E	t_r	$V_O=5V, V_{IN}=5V$ $R_L=1k\Omega$	-	0.05	-	μS
		KRC408E			-	0.12	-	
		KRC409E			-	0.26	-	
	Storage Time	KRC407E	t_{stg}		-	2.0	-	
		KRC408E			-	2.4	-	
		KRC409E			-	1.5	-	
	Fall Time	KRC407E	t_f		-	0.36	-	
		KRC408E			-	0.4	-	
		KRC409E			-	0.41	-	

Note : * Characteristic of Transistor Only.

KRC407E~KRC409E



KRC407E~KRC409E

