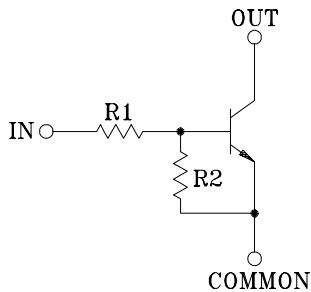


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

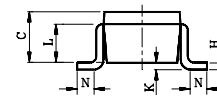
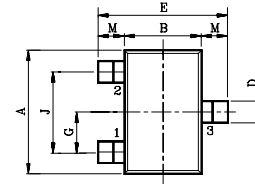
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRC407	10	47
KRC408	22	47
KRC409	47	22



1. COMMON (EMITTER)
2. IN (BASE)
3. OUT (COLLECTOR)

DIM	MILLIMETERS
A	2.00 $\pm$ 0.20
B	1.25 $\pm$ 0.15 -0.15
C	0.90 $\pm$ 0.10
D	0.35 $\pm$ 0.10 -0.05
E	2.10 $\pm$ 0.20
G	0.65
H	0.15 $\pm$ 0.10 -0.06
J	1.30
K	0.00-0.10
L	0.70
M	0.42 $\pm$ 0.10
N	0.10 MIN

USM

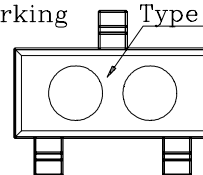
MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC407 ~ 409	V _O	50	V
Input Voltage	KRC407	V _I	30, -6	V
	KRC408		40, -7	
	KRC409		40, -15	
Output Current	KRC407 ~ 409	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	KRC407	KRC408	KRC409
MARK	NH	NI	NJ

Marking Type Name



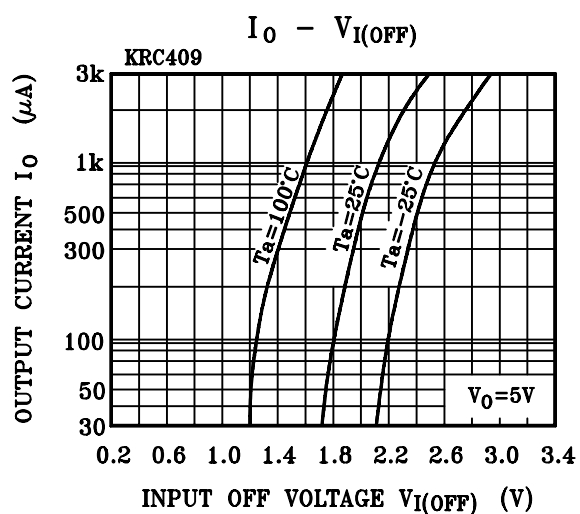
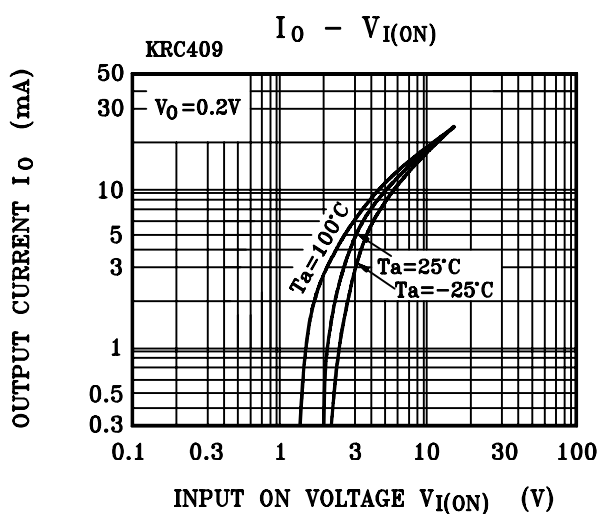
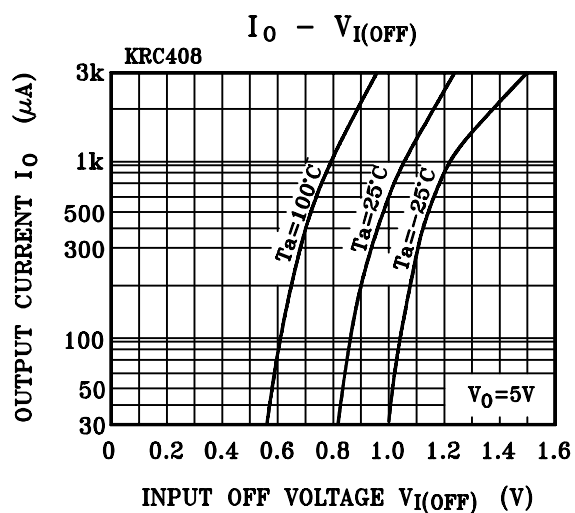
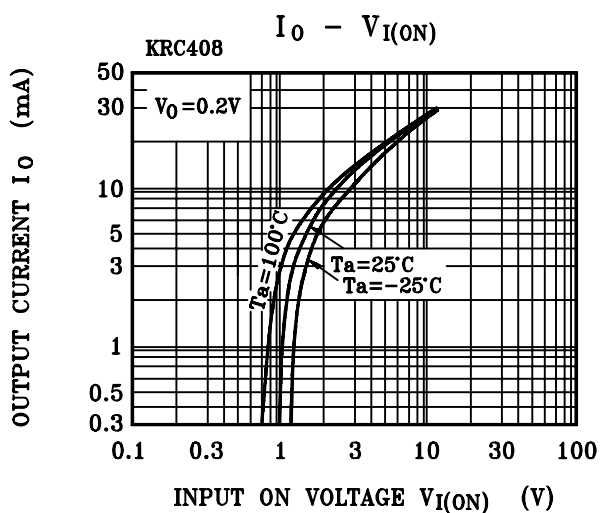
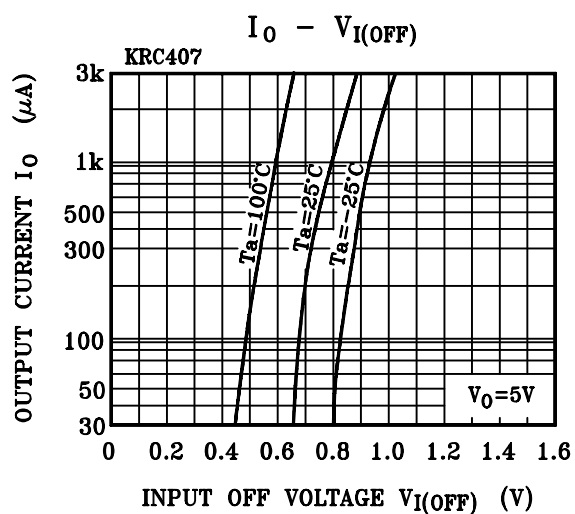
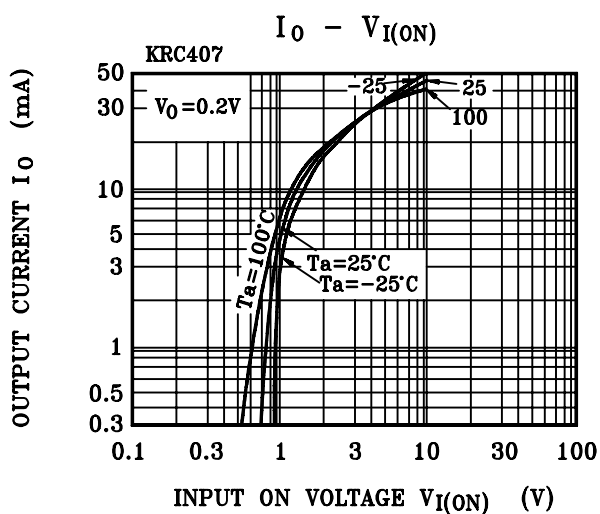
KRC407 ~ KRC409

ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC407~409	$I_{O(OFF)}$	$V_O=50V, V_I=0$	–	–	500	nA
DC Current Gain	KRC407	G_I	$V_O=5V, I_O=10mA$	80	150	–	
	KRC408			80	150	–	
	KRC409			70	140	–	
Output Voltage	KRC407~409	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	–	0.1	0.3	V
Input Voltage (ON)	KRC407	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	–	1.2	1.8	V
	KRC408			–	1.8	2.6	
	KRC409			–	3.0	5.8	
Input Voltage (OFF)	KRC407	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	0.5	0.75	–	V
	KRC408			0.6	0.88	–	
	KRC409			1.5	1.82	–	
Transition Frequency	KRC407~409	f_T *	$V_O=10V, I_O=5mA$	–	200	–	MHz
Input Current	KRC407	I_I	$V_I=5V$	–	–	0.88	mA
	KRC408			–	–	0.36	
	KRC409			–	–	0.16	
Switching Time	Rise Time	KRC407	$V_O=5V, V_{IN}=5V$ $R_L=1k\Omega$	–	0.05	–	μS
		KRC408		–	0.12	–	
		KRC409		–	0.26	–	
	Storage Time	KRC407		–	2.0	–	
		KRC408		–	2.4	–	
		KRC409		–	1.5	–	
	Fall Time	KRC407		–	0.36	–	
		KRC408		–	0.4	–	
		KRC409		–	0.41	–	

Note : *Characteristic of Transistor Only

KRC407 ~ KRC409



KRC407 ~ KRC409

