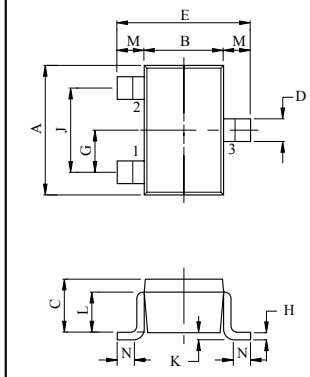
SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

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

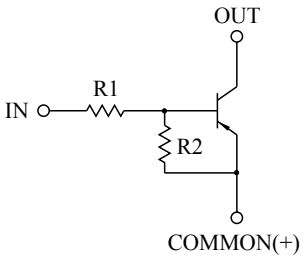


DIM	MILLIMETERS
A	2.00±0.20
B	1.25±0.15
C	0.90±0.10
D	0.3+0.10/-0.05
E	2.10± 0.20
G	0.65
H	0.15+0.1/-0.06
J	1.30
K	0.00-0.10
L	0.70
M	0.42±0.10
N	0.10 MIN

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

USM

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRA307	10	47
KRA308	22	47
KRA309	47	22

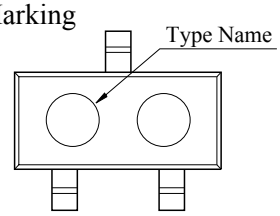
MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA307~309	V_O	-50	V
Input Voltage	KRA307	V_I	-30, 6	V
	KRA308		-40, 7	
	KRA309		-40, 15	
Output Current	KRA307~309	I_O	-100	mA
Power Dissipation		P_D	100	mW
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55~150	℃

MARK SPEC

TYPE	KRA307	KRA308	KRA309
MARK	PH	PI	PJ

Marking

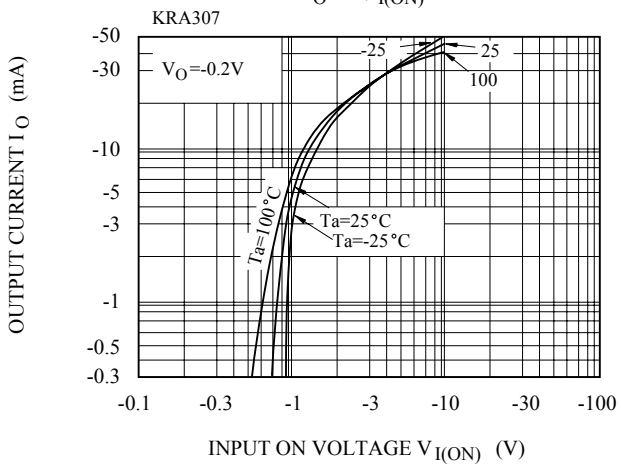


ELECTRICAL CHARACTERISTICS (Ta=25℃)

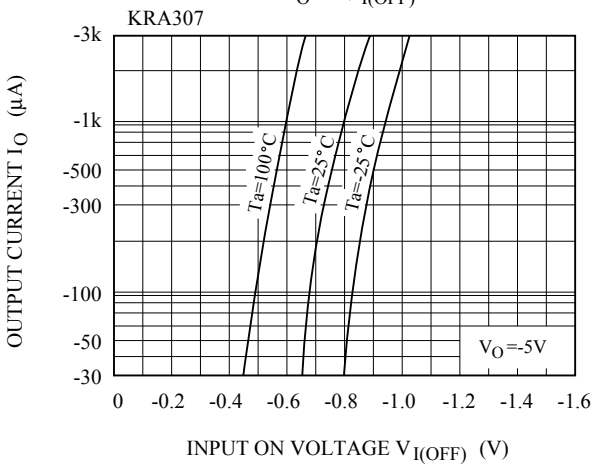
CHARACTERISTIC			SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current		KRA307～309	$I_{O(OFF)}$	V_O=-50V, V_I=0	-	-	-500	nA
DC Current Gain		KRA307	G_I	V_O=-5V, I_O=-10mA	80	150	-	
		KRA308			80	150	-	
		KRA309			70	140	-	
Output Voltage		KRA307～309	$V_{O(ON)}$	I_O=-10mA, I_I=-0.5mA	-	-0.1	-0.3	V
Input Voltage (ON)		KRA307	$V_{I(ON)}$	V_O=-0.2V, I_O=-5mA	-	-1.2	-1.8	V
		KRA308			-	-1.8	-2.6	
		KRA309			-	-3.0	-5.8	
Input Votlage (OFF)		KRA307	$V_{I(OFF)}$	V_O=-5V, I_O=-0.1mA	-0.5	-0.75	-	V
		KRA308			-0.6	-0.88	-	
		KRA309			-1.5	-1.82	-	
Transition Frequency		KRA307～309	f_T *	V_O=-10V, I_O=-5mA	-	200	-	MHz
Input Current		KRA307	I_I	V_I=-5V	-	-	-0.88	mA
		KRA308			-	-	-0.36	
		KRA309			-	-	-0.16	
Switching Time	Rise Time	KRA307	t_r	V_O=-5V, V_{IN}=-5V R_L=1kΩ	-	0.07	-	μS
		KRA308			-	0.20	-	
		KRA309			-	0.38	-	
	Storage Time	KRA307	t_{stg}		-	1.1	-	
		KRA308			-	1.3	-	
		KRA309			-	0.7	-	
	Fall Time	KRA307	t_f		-	0.35	-	
		KRA308			-	0.4	-	
		KRA309			-	0.48	-	

Note : * Characteristic of Transistor Only.

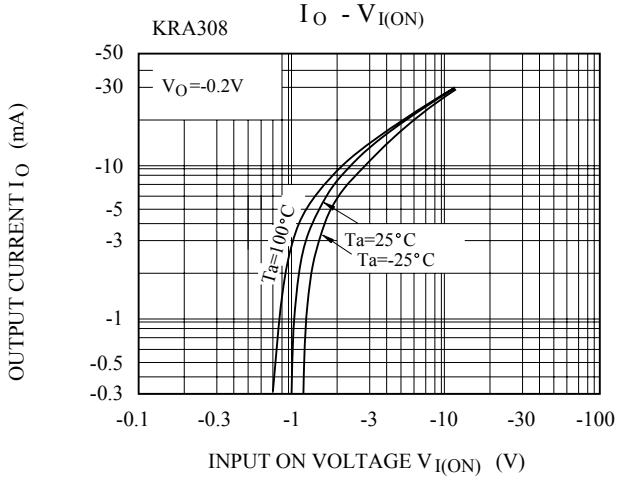
I_O - $V_{I(ON)}$



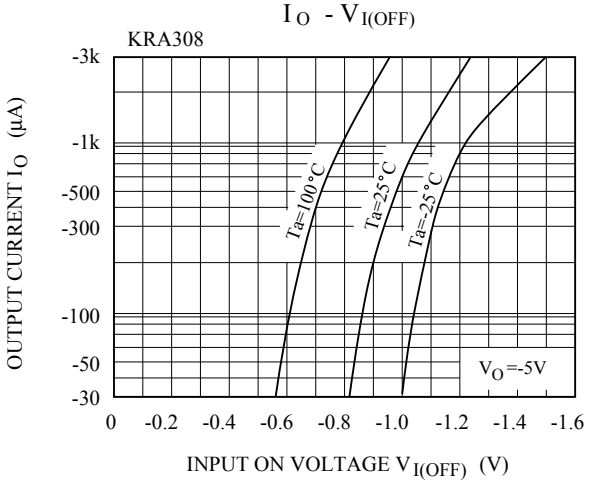
I_O - $V_{I(OFF)}$



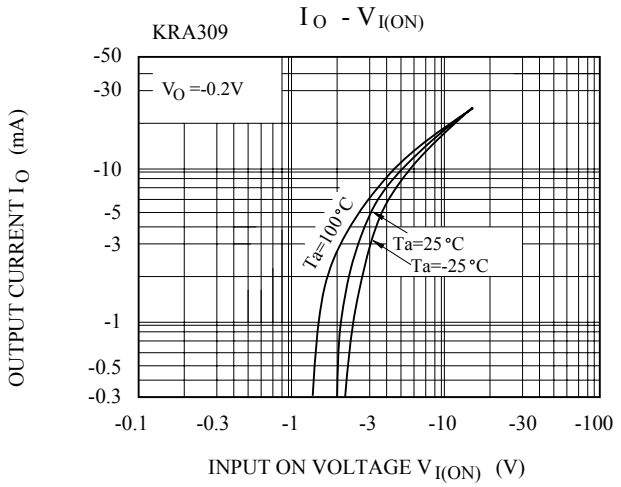
I_O - $V_{I(ON)}$



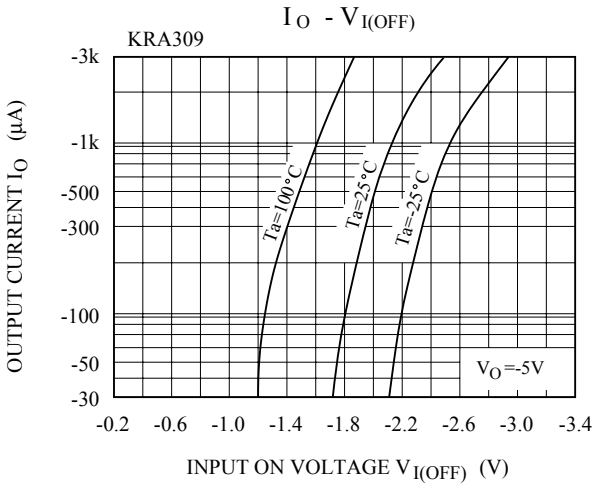
I_O - $V_{I(OFF)}$



I_O - $V_{I(ON)}$

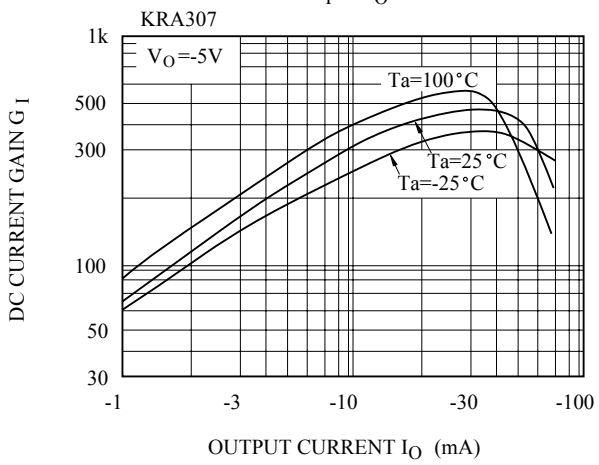


I_O - $V_{I(OFF)}$



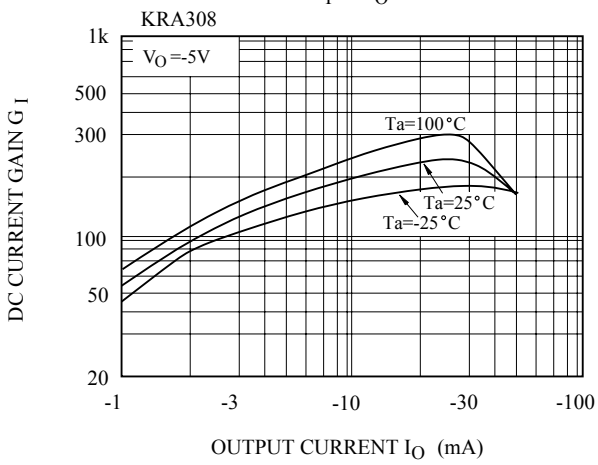
G_I - I_O

KRA307



G_I - I_O

KRA308



G_I - I_O

KRA309