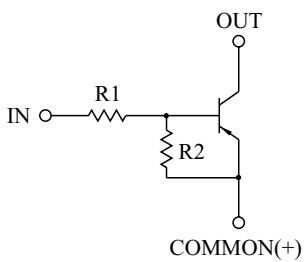


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

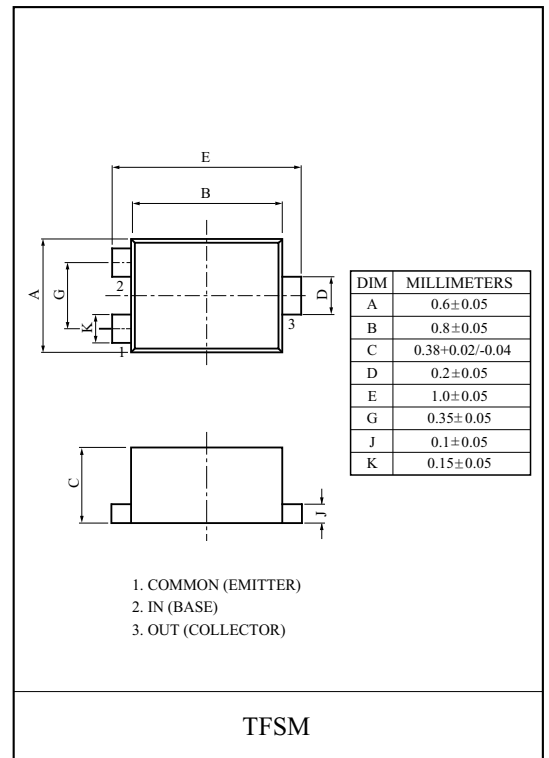
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- Thin Fine Pitch Small Package.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRA157F	10	47
KRA158F	22	47
KRA159F	47	22



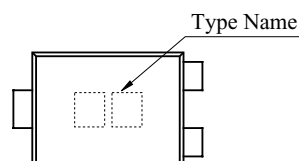
MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA157F~159F	V _O	-20	V
Input Voltage	KRA157F	V _I	-10/6	V
	KRA158F		-10/7	
	KRA159F		-10/15	
Output Current	KRA157F~159F	I _O	-50	mA
Power Dissipation		P _D	50	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55 ~ 150	°C

MARK SPEC

TYPE	KRA157F	KRA158F	KRA159F
MARK	GG	GH	GI

Marking



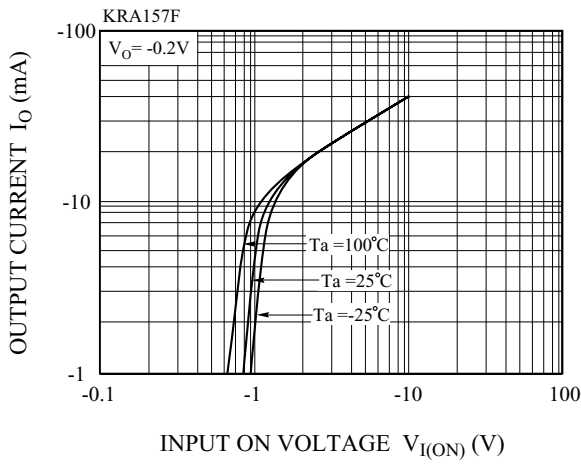
KRA157F~KRA159F

ELECTRICAL CHARACTERISTICS (Ta=25°C)

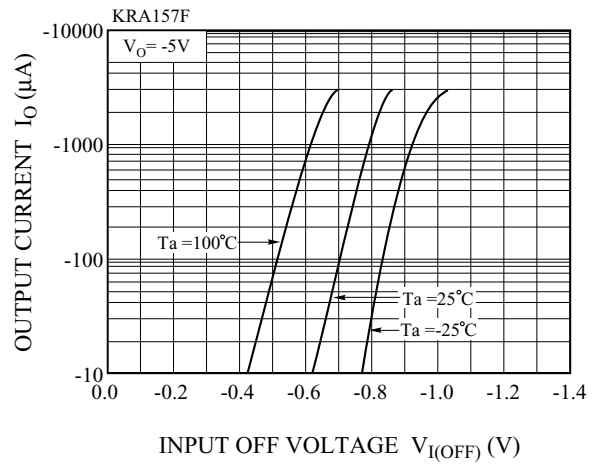
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA157F~159F	$I_{O(OFF)}$	$V_O=-20V, V_I=0$	-	-	-500	nA
DC Current Gain	KRA157F	G_I	$V_O=-5V, I_O=-10mA$	120	-	-	
	KRA158F			120	-	-	
	KRA159F			100	-	-	
Output Voltage	KRA157F~159F	$V_{O(ON)}$	$I_O=-5mA, I_I=-0.25mA$	-	-	-0.15	V
Input Voltage (ON)	KRA157F	$V_{I(ON)}$	$V_O=-0.2V, I_O=-5mA$	-	-	-1.5	V
	KRA158F			-	-	-2.2	
	KRA159F			-	-	-5.0	
Input Voltage (OFF)	KRA157F	$V_{I(OFF)}$	$V_O=-5V, I_O=-0.1mA$	-0.5	-	-	V
	KRA158F			-0.6	-	-	
	KRA159F			-1.3	-	-	
Input Current	KRA157F	I_I	$V_I=-5V$	-	-	-0.88	mA
	KRA158F			-	-	-0.36	
	KRA159F			-	-	-0.16	

KRA157F~KRA159F

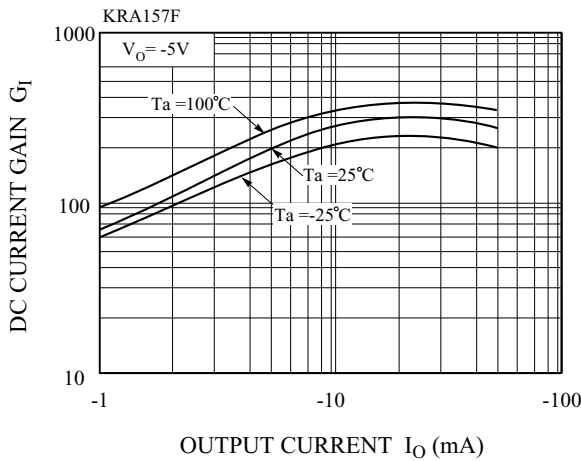
$I_O - V_{I(ON)}$



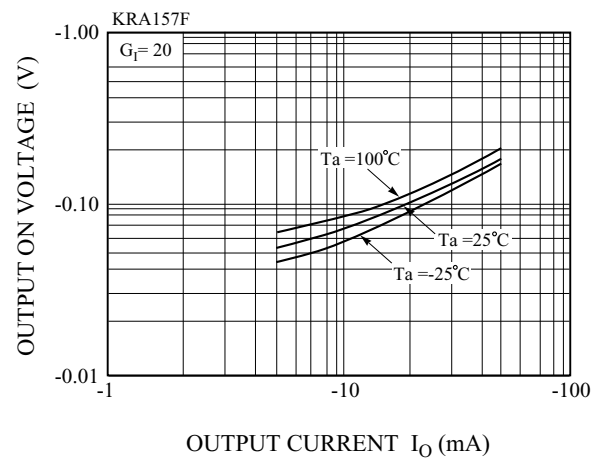
$I_O - V_{I(OFF)}$



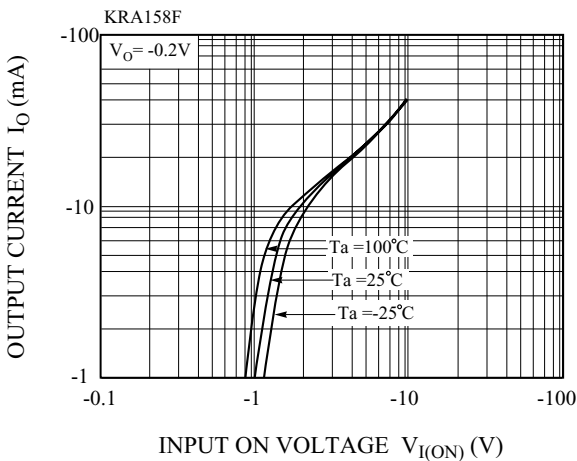
$G_I - I_O$



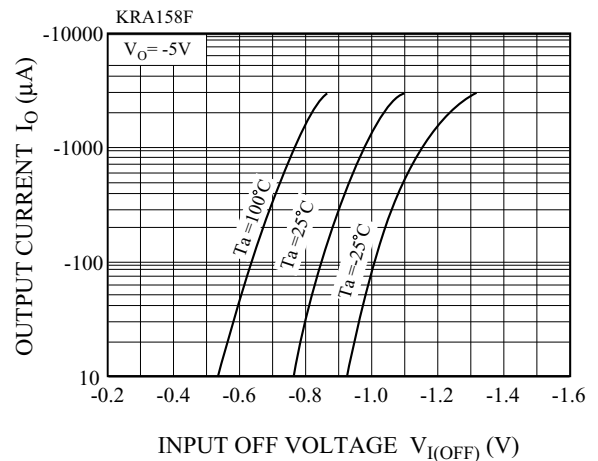
$V_{O(ON)} - I_O$



$I_O - V_{I(ON)}$

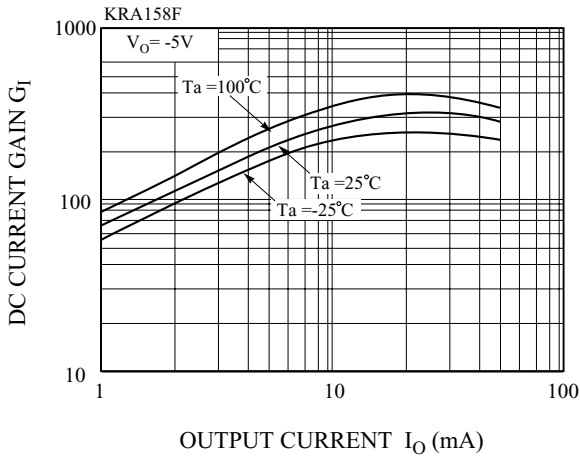


$I_O - V_{I(OFF)}$

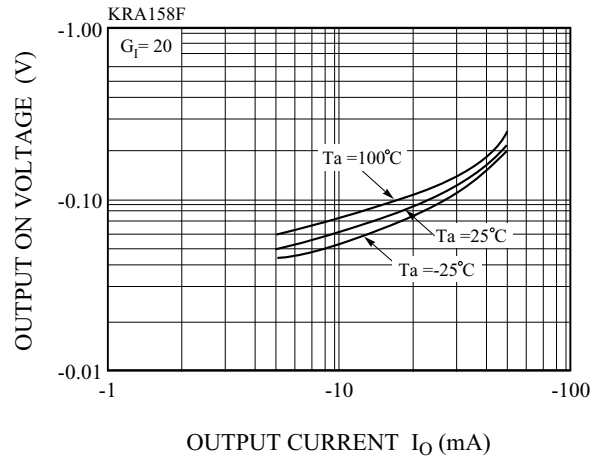


KRA157F~KRA159F

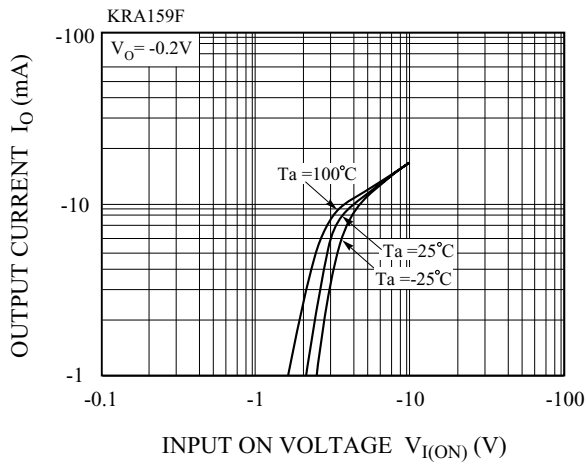
$G_I - I_O$



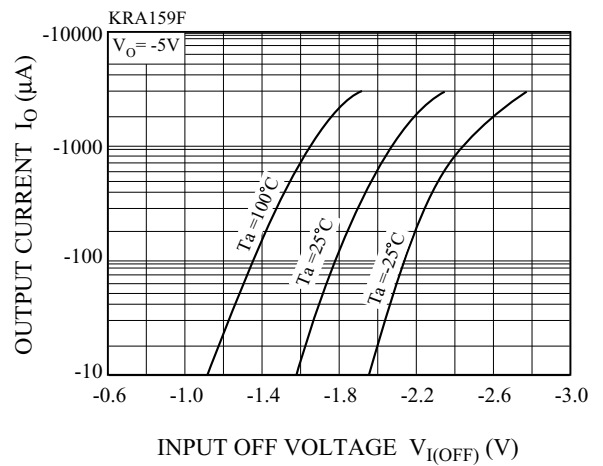
$V_{O(ON)} - I_O$



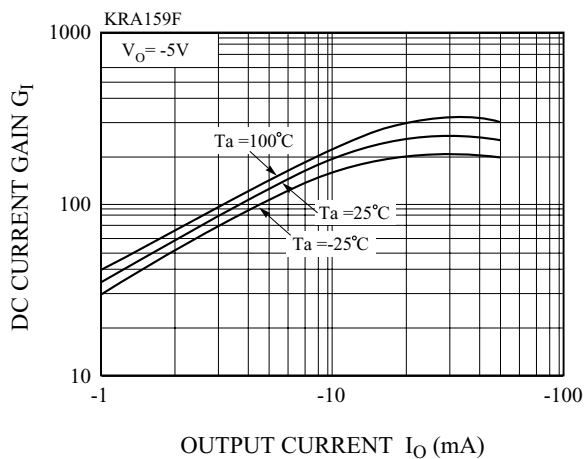
$I_O - V_{I(ON)}$



$I_O - V_{I(OFF)}$



$G_I - I_O$



$V_{O(ON)} - I_O$

