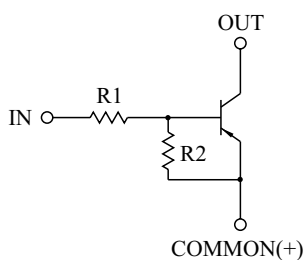


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION

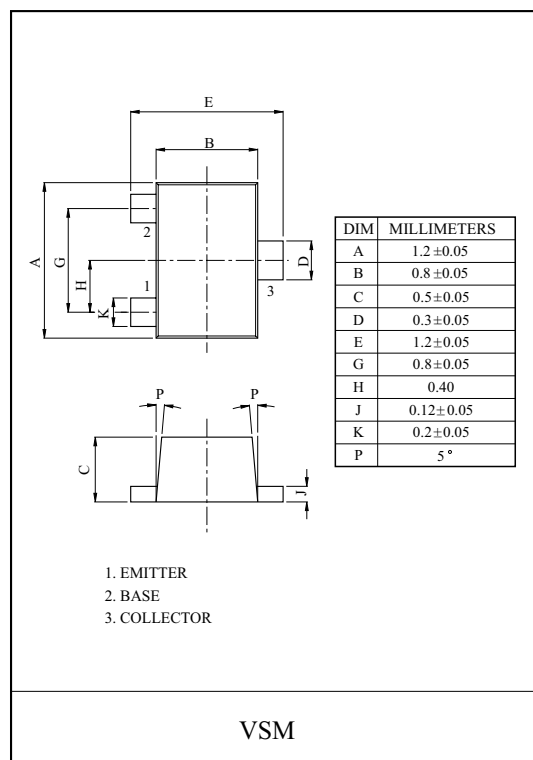
FEATURES

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

EQUIVALENT CIRCUIT



TYPE NO.	R1(k Ω)	R2(k Ω)
KRA316V	1	10
KRA317V	2.2	2.2
KRA318V	2.2	10
KRA319V	4.7	10
KRA320V	10	4.7
KRA321V	47	10
KRA322V	100	100



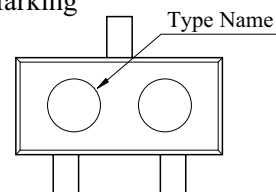
MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA316V ~322V	V _O	-50	V
Input Voltage	KRA316V	V _I	-10, 5	V
	KRA317V		-12, 10	
	KRA318V		-12, 5	
	KRA319V		-20, 7	
	KRA320V		-30, 10	
	KRA321V		-40, 15	
	KRA322V		-40, 10	
Output Current	KRA316V ~322V	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	KRA316V	KRA317V	KRA318V	KRA319V	KRA320V	KRA321V	KRA322V
MARK	P2	P4	P5	P6	P7	P8	P9

Marking



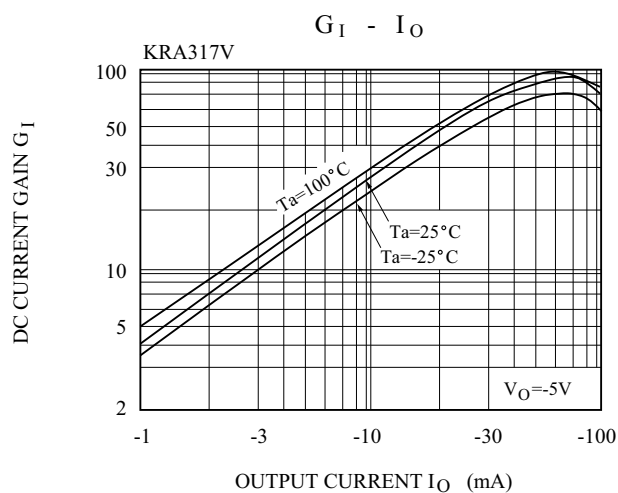
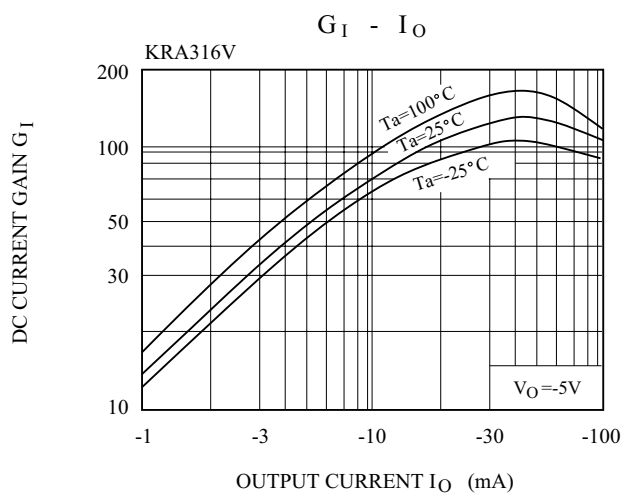
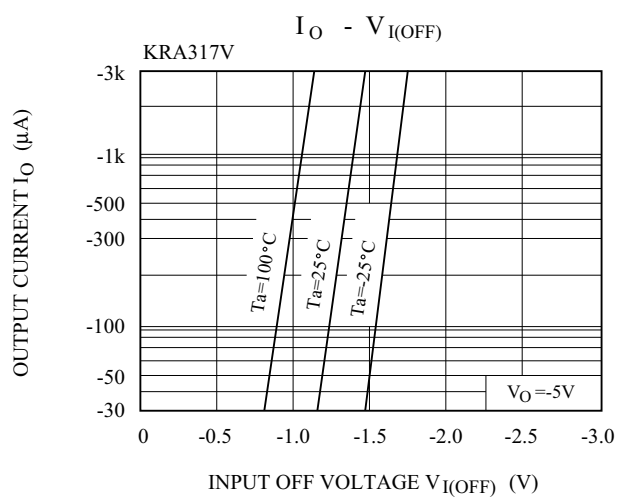
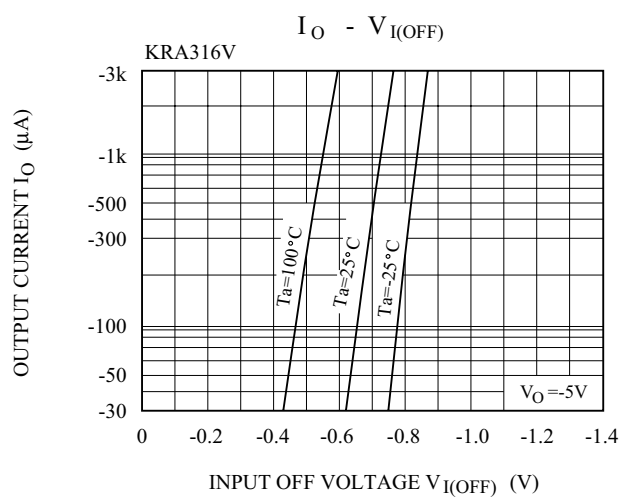
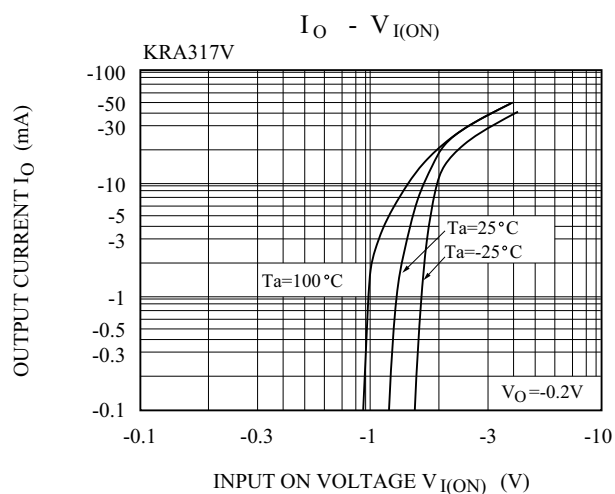
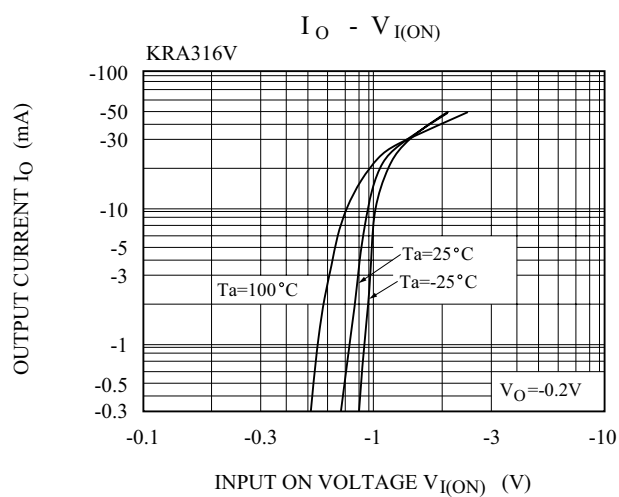
KRA316V~KRA322V

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

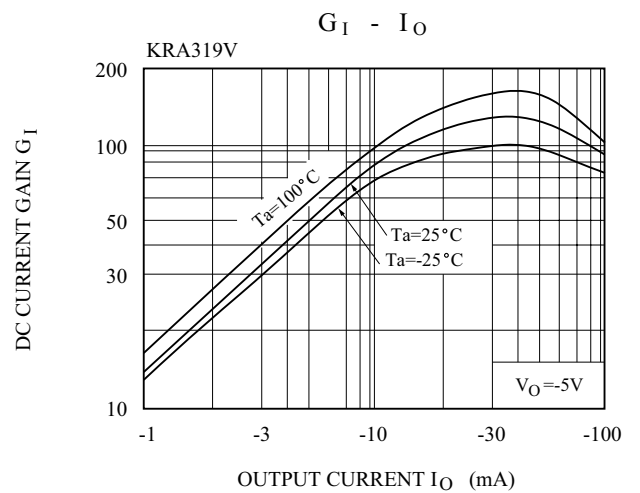
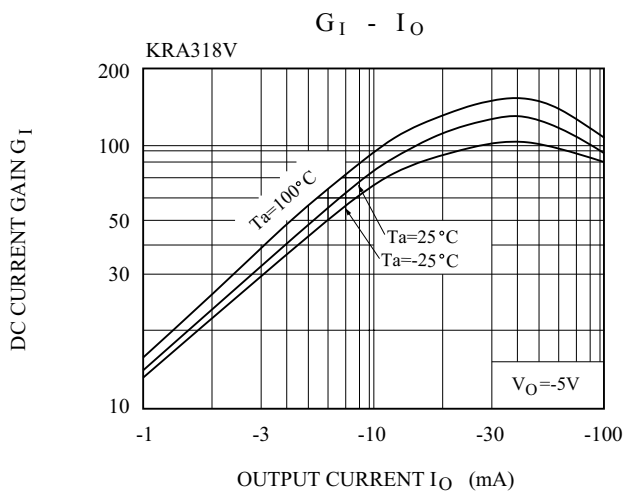
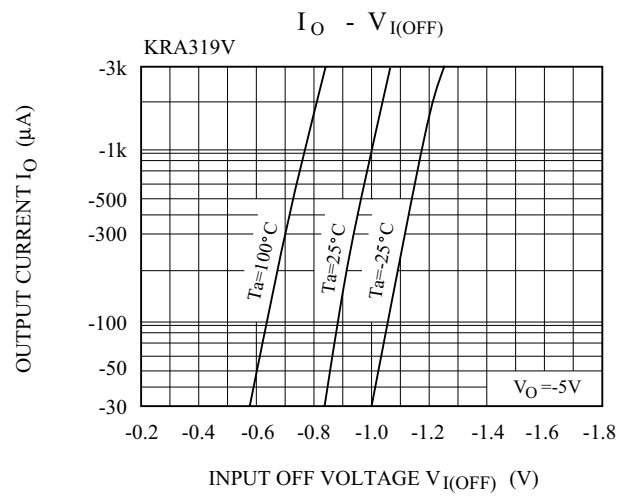
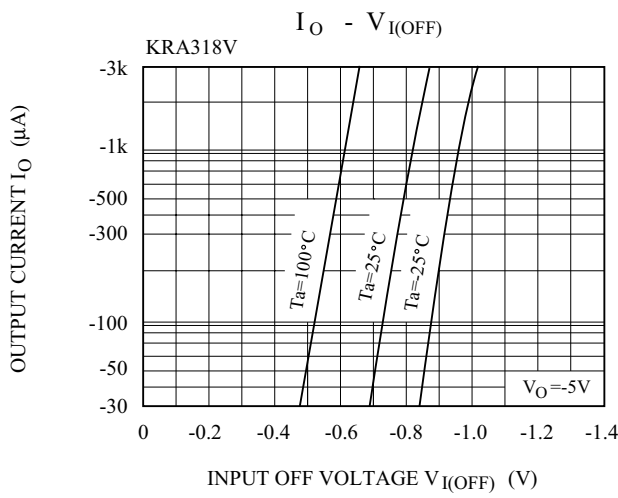
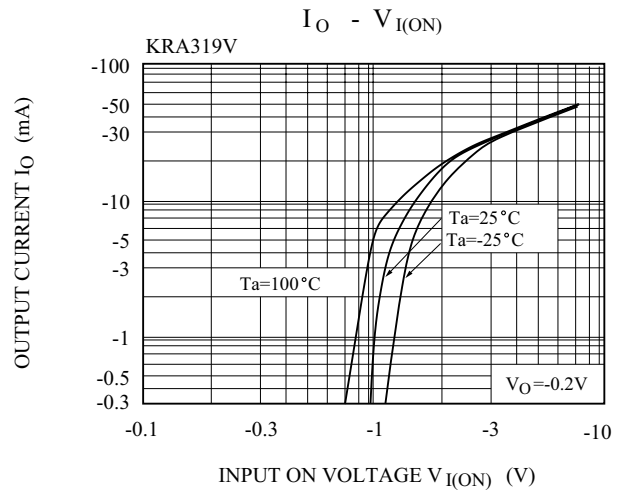
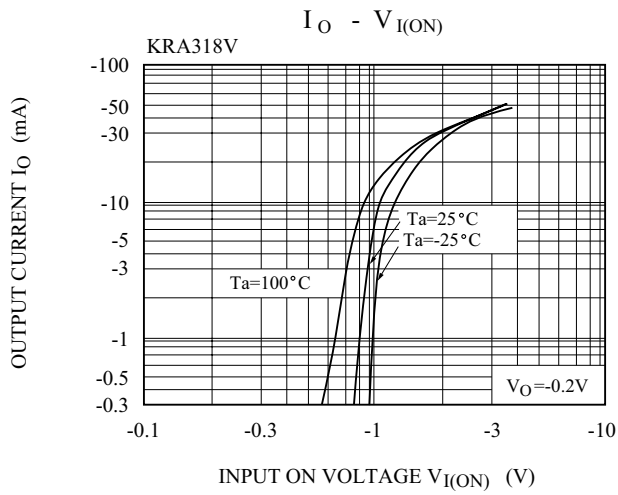
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA316V ~ 322V	$I_{O(OFF)}$	$V_O=-50V, V_I=0$	-	-	-500	nA
DC Current Gain	KRA316V	G_I	$V_O=-5V, I_O=-5mA$	33	-	-	
	KRA317V		$V_O=-5V, I_O=-20mA$	20	-	-	
	KRA318V		$V_O=-5V, I_O=-10mA$	33	-	-	
	KRA319V		$V_O=-5V, I_O=-10mA$	30	-	-	
	KRA320V		$V_O=-5V, I_O=-10mA$	24	-	-	
	KRA321V		$V_O=-5V, I_O=-5mA$	33	-	-	
	KRA322V		$V_O=-5V, I_O=-5mA$	62	-	-	
Output Voltage	KRA316V	$V_{O(ON)}$	$I_O=-10mA, I_I=-0.5mA$	-	-	-0.3	V
	KRA317V		$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	
	KRA318V		$I_O=-10mA, I_I=-0.5mA$	-	-	-0.3	
	KRA319V		$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	
	KRA320V		$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	
	KRA321V		$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	
	KRA322V		$I_O=-5mA, I_I=-0.25mA$	-	-0.1	-0.3	
Input Voltage (ON)	KRA316V	$V_{I(ON)}$	$V_O=-0.3V, I_O=-20mA$	-	-0.98	-3	V
	KRA317V		$V_O=-0.3V, I_O=-20mA$	-	-1.83	-3	
	KRA318V		$V_O=-0.3V, I_O=-20mA$	-	-1.22	-3	
	KRA319V		$V_O=-0.3V, I_O=-20mA$	-	-1.76	-2.5	
	KRA320V		$V_O=-0.3V, I_O=-2mA$	-	-2	-3	
	KRA321V		$V_O=-0.3V, I_O=-2mA$	-	-3.9	-5	
	KRA322V		$V_O=-0.3V, I_O=-1mA$	-	-1.64	-3	
Input Voltage (OFF)	KRA316V	$V_{I(OFF)}$	$V_{CC}=-5V, I_O=-100\mu A$	-0.3	-0.63	-	V
	KRA317V			-0.5	-1.15	-	
	KRA318V			-0.3	-0.67	-	
	KRA319V			-0.3	-0.82	-	
	KRA320V			-0.8	-1.68	-	
	KRA321V			-1	-3.09	-	
	KRA322V			-0.5	-1.17	-	
Transition Frequency	KRA316V ~ 322V	f_T^*	$V_O=-10V, I_O=-5mA$	-	250	-	MHz
Input Current	KRA316V	I_I	$V_I=-5V$	-	-	-7.2	mA
	KRA317V			-	-	-3.8	
	KRA318V			-	-	-3.8	
	KRA319V			-	-	-1.8	
	KRA320V			-	-	-0.88	
	KRA321V			-	-	-0.16	
	KRA322V			-	-	-0.15	

Note : * Characteristic of Transistor Only.

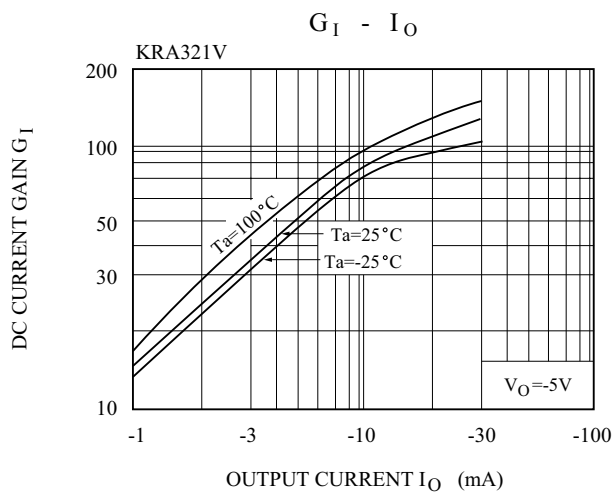
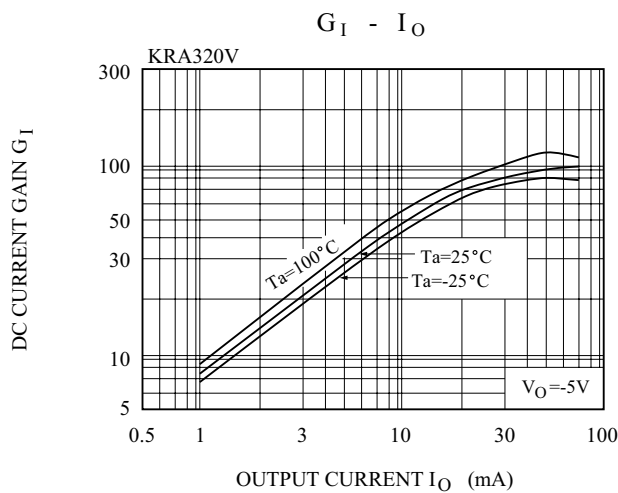
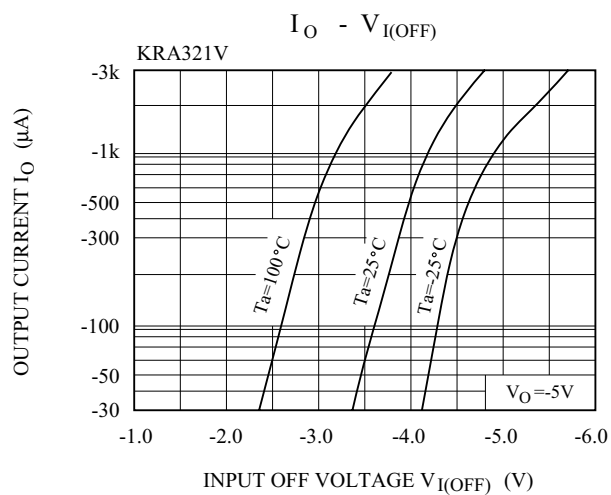
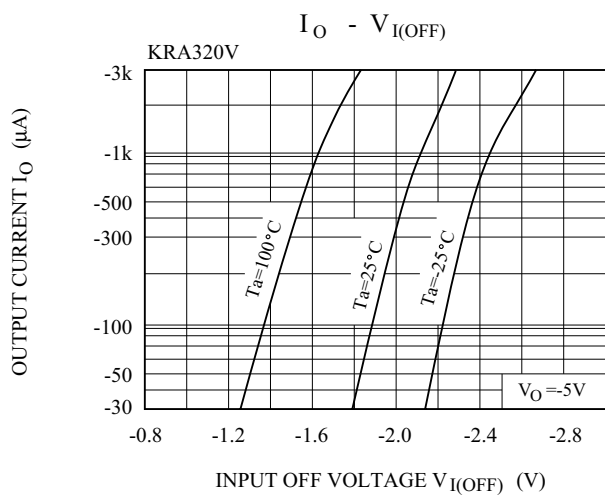
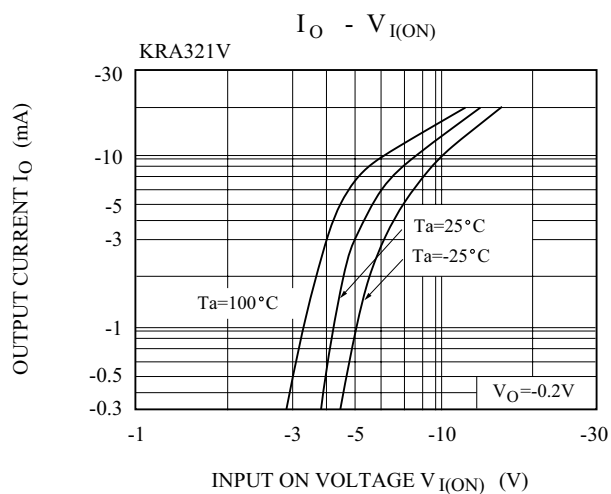
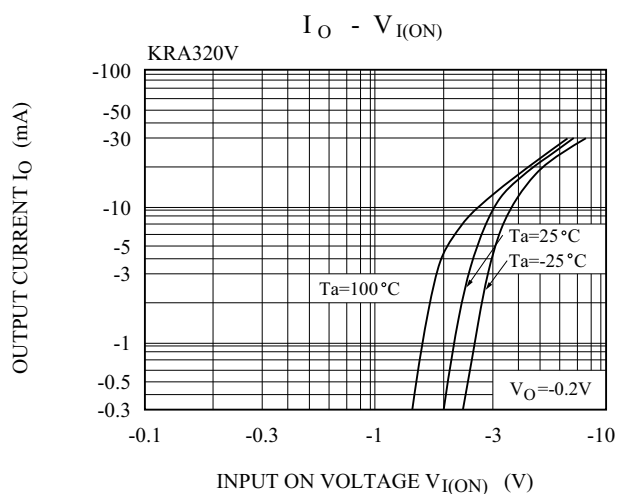
KRA316V~KRA322V



KRA316V~KRA322V



KRA316V~KRA322V



KRA316V~KRA322V

