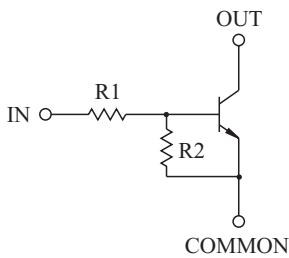


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

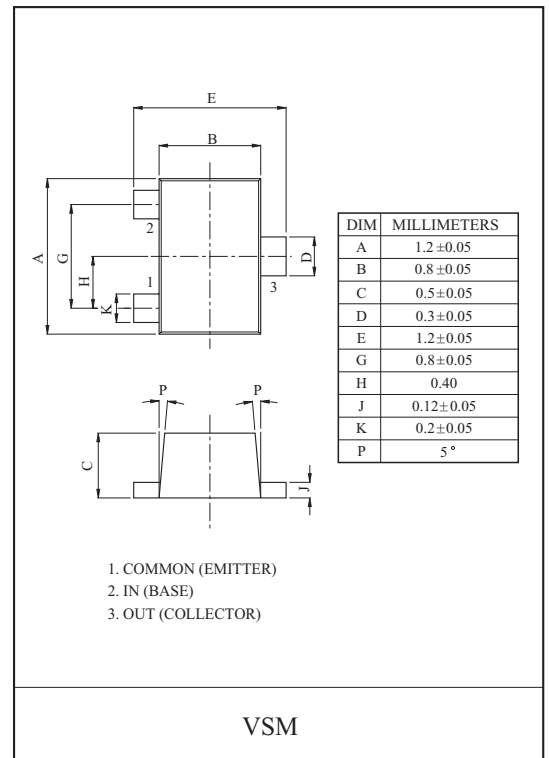
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRC401V	4.7	4.7
KRC402V	10	10
KRC403V	22	22
KRC404V	47	47
KRC405V	2.2	47
KRC406V	4.7	47



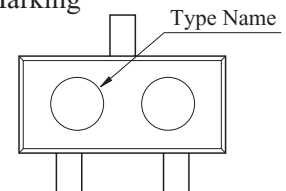
MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC401V~406V	V_O	50	V
Input Voltage	KRC401V	V_I	20, -10	V
	KRC402V		30, -10	
	KRC403V		40, -10	
	KRC404V		40, -10	
	KRC405V		12, -5	
	KRC406V		20, -5	
Output Current	KRC401V~406V	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	KRC401V	KRC402V	KRC403V	KRC404V	KRC405V	KRC406V
MARK	NA	NB	NC	ND	NE	NF

Marking



KRC401V~KRC406V

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC401V ~406V	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC401V	G_I	$V_O=5V, I_O=10mA$	30	55	-	
	KRC402V			50	80	-	
	KRC403V			70	120	-	
	KRC404V			80	200	-	
	KRC405V			80	200	-	
	KRC406V			80	200	-	
Output Voltage	KRC401V ~406V	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC401V	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.5	2.0	V
	KRC402V			-	1.8	2.4	
	KRC403V			-	2.1	3.0	
	KRC404V			-	2.8	5.0	
	KRC405V			-	0.8	1.1	
	KRC406V			-	0.9	1.3	
Input Voltage (OFF)	KRC401V ~404V	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	1.0	1.2	-	V
	KRC405V ~406V			0.5	0.65	-	
Transition Frequency	KRC401V ~406V	f_T^*	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current	KRC401V	I_I	$V_I=5V$	-	-	1.8	mA
	KRC402V			-	-	0.88	
	KRC403V			-	-	0.36	
	KRC404V			-	-	0.18	
	KRC405V			-	-	3.6	
	KRC406V			-	-	1.8	

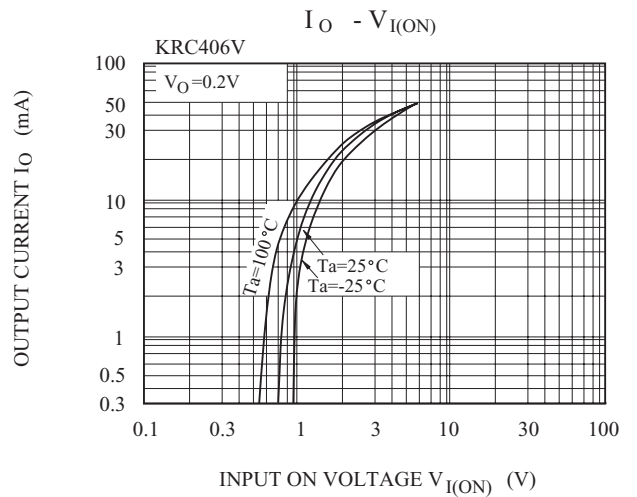
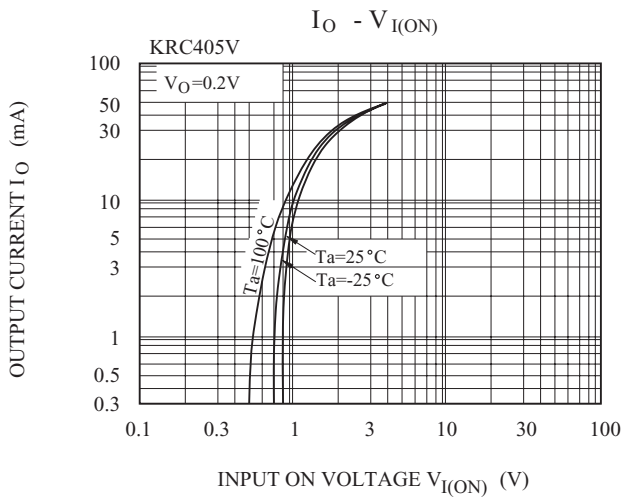
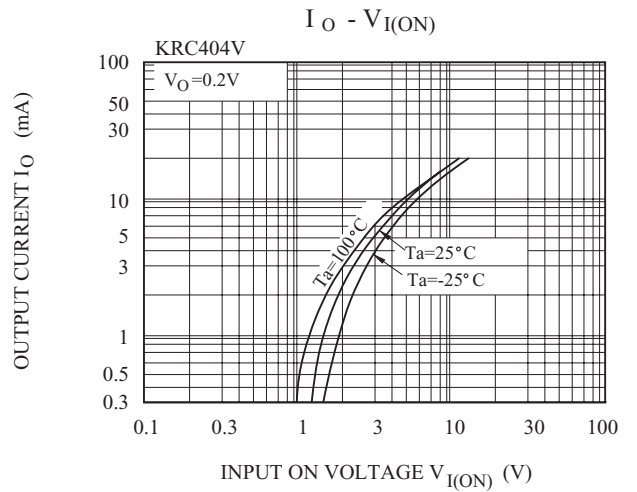
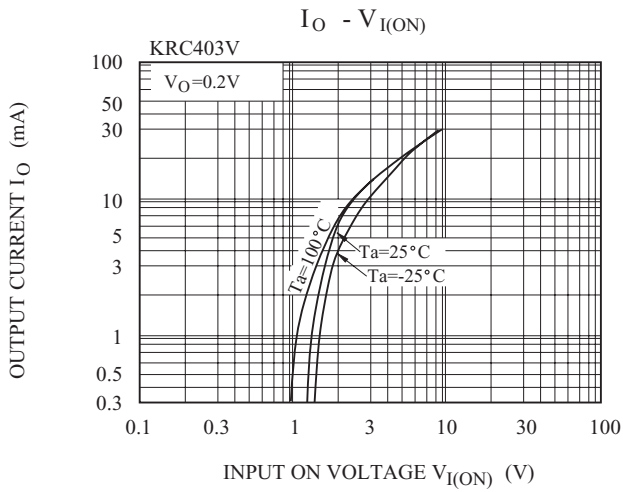
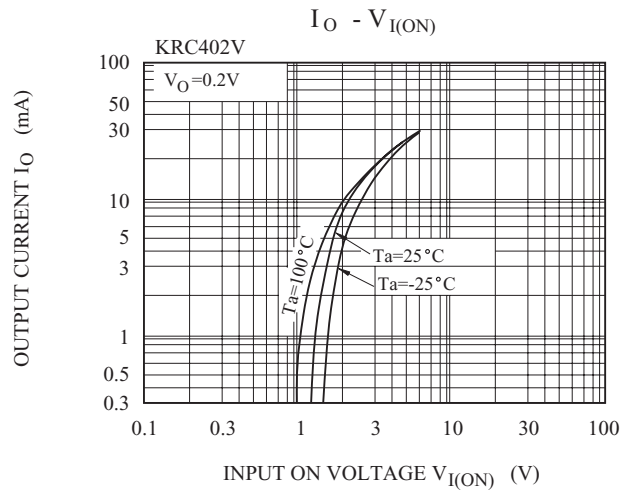
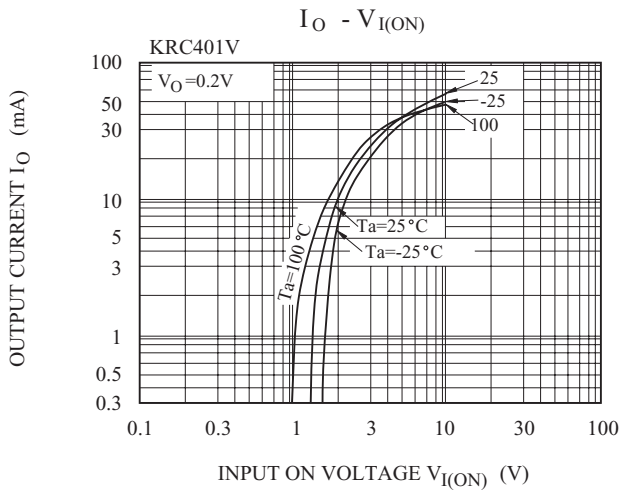
Note : * Characteristic of Transistor Only.

KRC401V~KRC406V

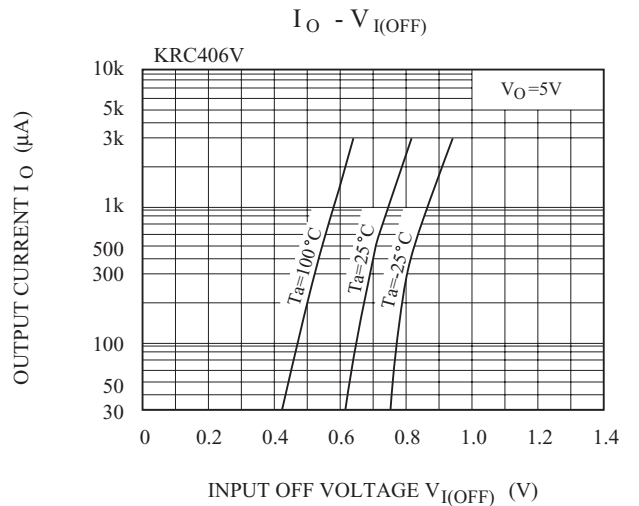
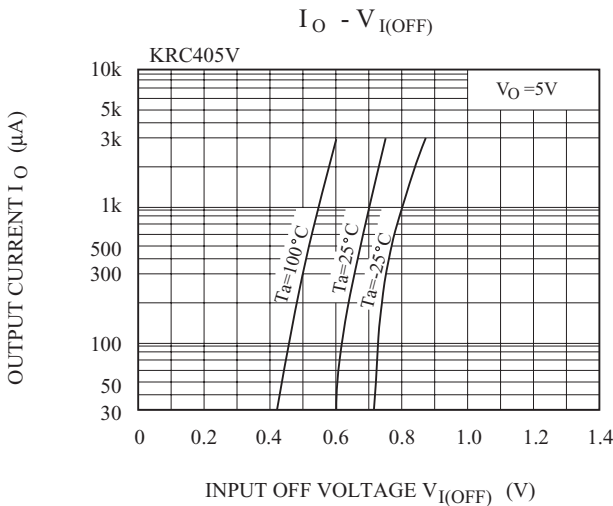
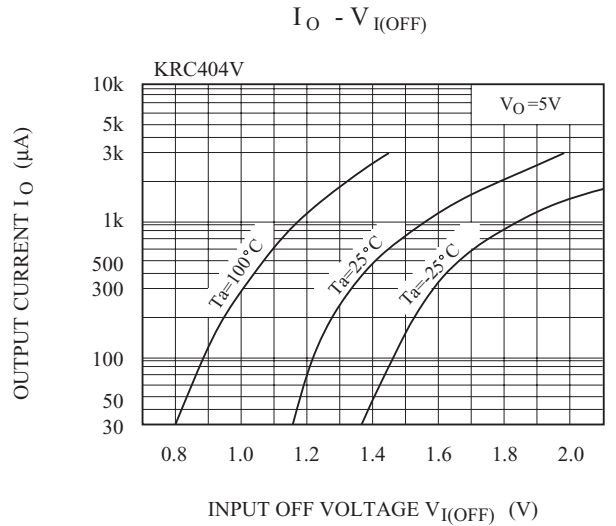
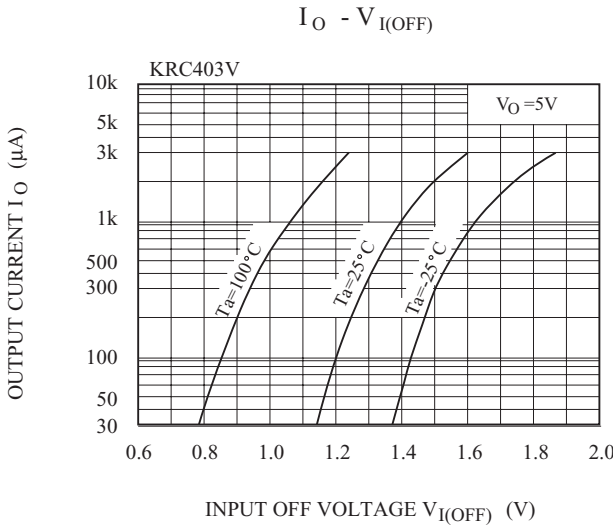
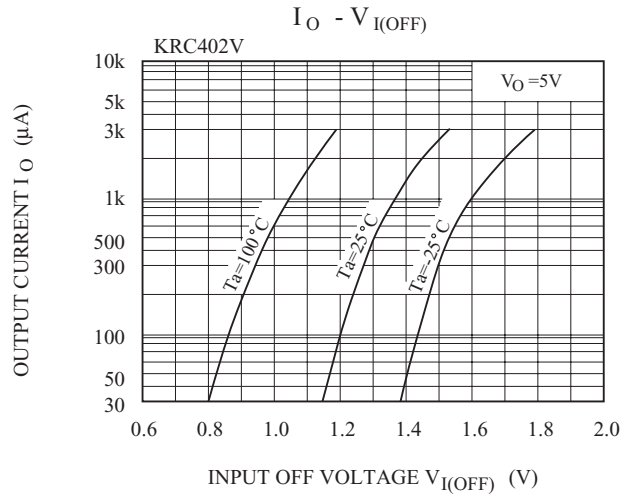
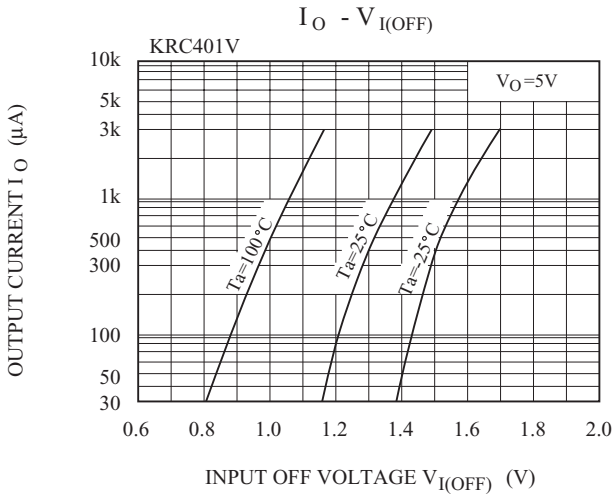
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRC401V	V _O =5V V _{IN} =5V R _L =1k Ω	-	0.03	-	μS
		KRC402V		-	0.05	-	
		KRC403V		-	0.12	-	
		KRC404V		-	0.22	-	
		KRC405V		-	0.01	-	
		KRC406V		-	0.03	-	
	Storage Time	KRC401V		-	2.0	-	
		KRC402V		-	2.0	-	
		KRC403V		-	2.0	-	
		KRC404V		-	2.0	-	
		KRC405V		-	2.0	-	
		KRC406V		-	2.0	-	
	Fall Time	KRC401V		-	0.12	-	
		KRC402V		-	0.36	-	
		KRC403V		-	0.35	-	
		KRC404V		-	0.6	-	
		KRC405V		-	0.1	-	
		KRC406V		-	0.19	-	

KRC401V~KRC406V



KRC401V~KRC406V



KRC401V~KRC406V

