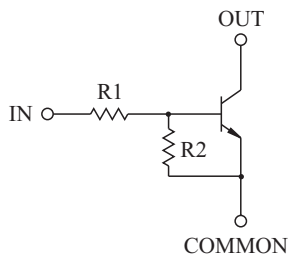


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION

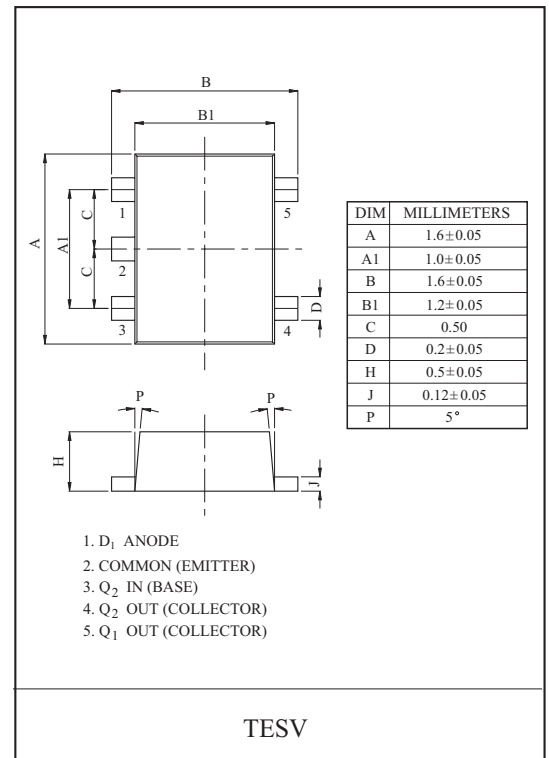
FEATURES

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

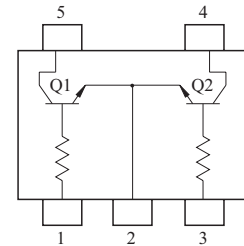
EQUIVALENT CIRCUIT



TYPE NO.	R1(k)	R2(k)
KRC666E	1	10
KRC667E	2.2	2.2
KRC668E	2.2	10
KRC669E	4.7	10
KRC670E	10	4.7
KRC671E	47	10
KRC672E	100	100



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25)

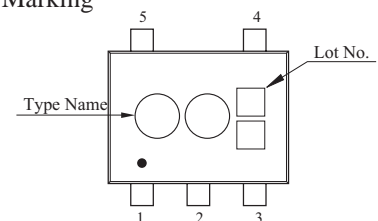
CHARACTERISTIC	SYMBOL	RATING	UNIT	
Output Voltage	KRC666E~672E	V _O	50	
Input Voltage		V _I	10, -5	V
			12, -10	
			12, -5	
			20, -7	
			30, -10	
			40, -15	
Output Current	I _O	100	mA	
Power Dissipation	P _D *	200	mW	
Junction Temperature	T _j	150		
Storage Temperature Range	T _{stg}	-55 150		

* Total Rating.

MARK SPEC

TYPE	KRC666E	KRC667E	KRC668E	KRC669E	KRC670E	KRC671E	KRC672E
MARK	N2	N4	N5	N6	N7	N8	N9

Marking



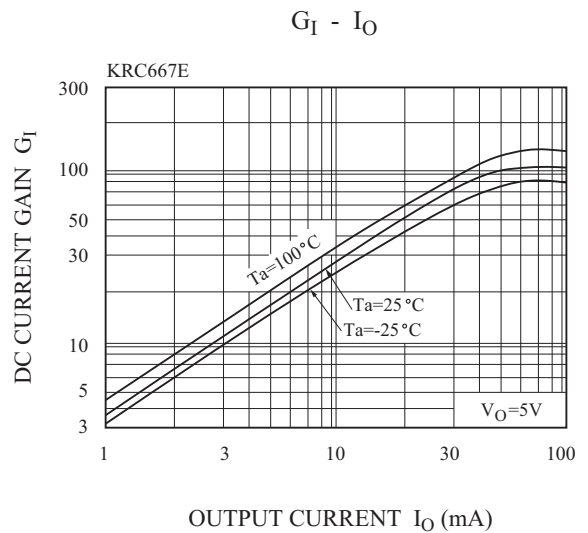
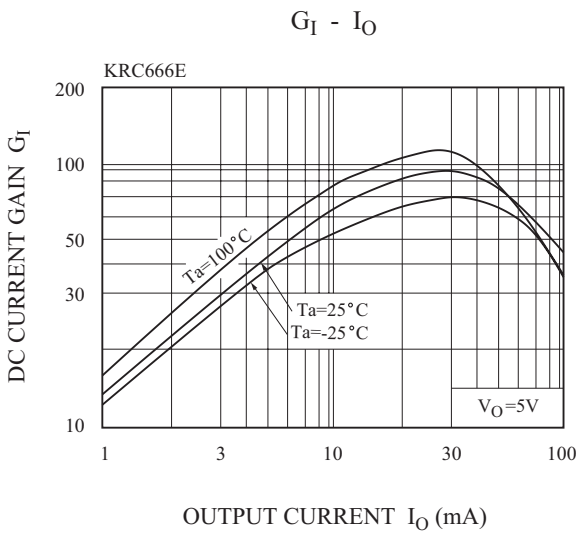
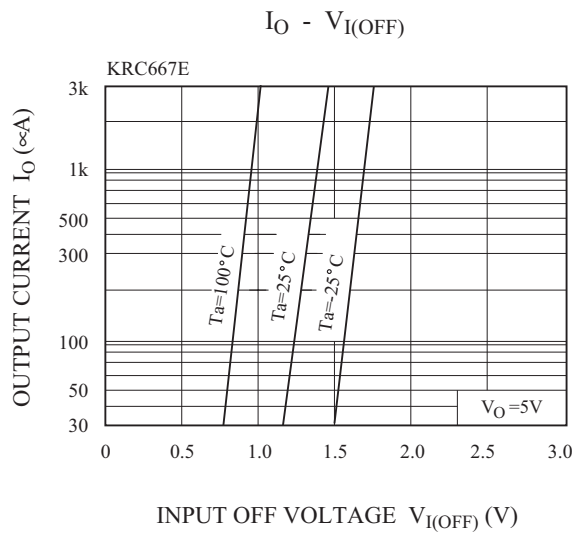
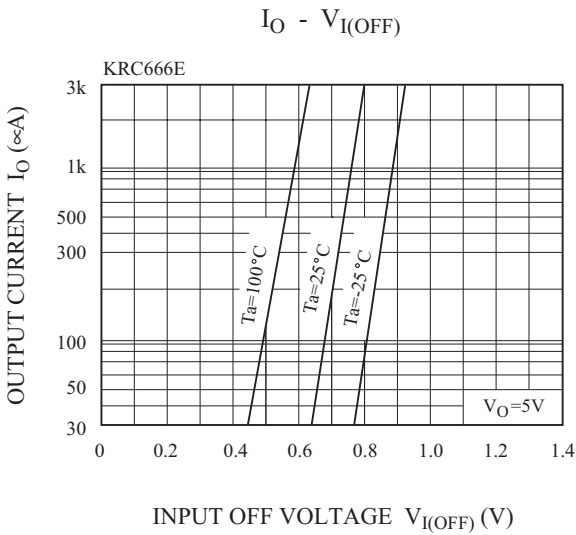
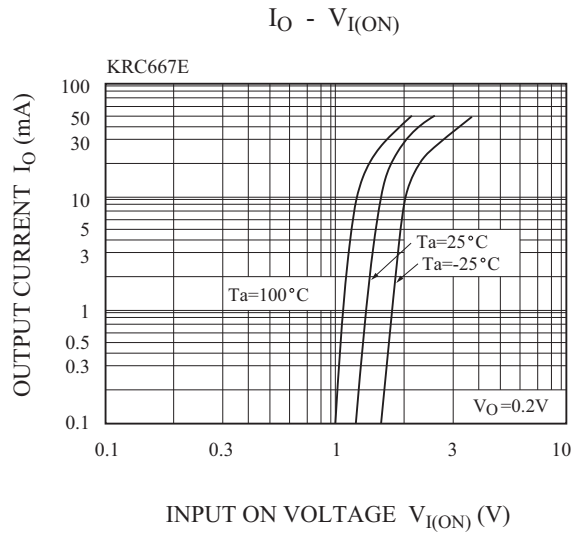
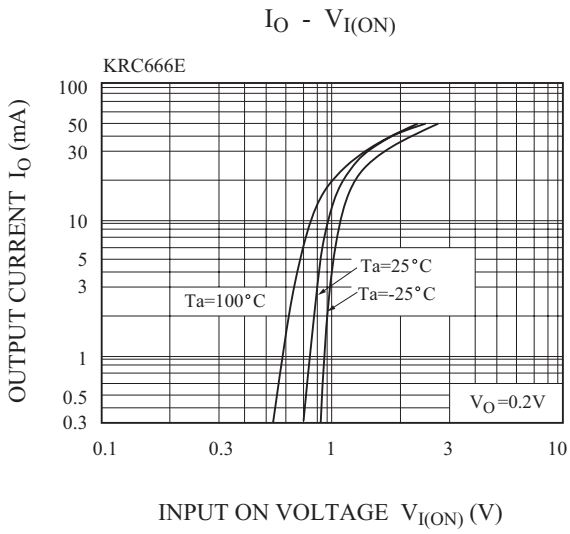
KRC666E~KRC672E

ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC666E~672E	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC666E	G_I	$V_O=5V, I_O=5mA$	33	-	-	
	KRC667E		$V_O=5V, I_O=20mA$	20	-	-	
	KRC668E		$V_O=5V, I_O=10mA$	33	-	-	
	KRC669E		$V_O=5V, I_O=10mA$	30	-	-	
	KRC670E		$V_O=5V, I_O=10mA$	24	-	-	
	KRC671E		$V_O=5V, I_O=5mA$	33	-	-	
	KRC672E		$V_O=5V, I_O=5mA$	62	-	-	
	Output Voltage		KRC666E	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	
KRC667E		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC668E		$I_O=10mA, I_I=0.5mA$	-		-	0.3	
KRC669E		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC670E		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC671E		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC672E		$I_O=5mA, I_I=0.25mA$	-		0.1	0.3	
Input Voltage (ON)		KRC666E	$V_{I(ON)}$		$V_O=0.3V, I_O=20mA$	-	0.98
	KRC667E	$V_O=0.3V, I_O=20mA$		-	1.83	3	
	KRC668E	$V_O=0.3V, I_O=20mA$		-	1.22	3	
	KRC669E	$V_O=0.3V, I_O=20mA$		-	1.76	2.5	
	KRC670E	$V_O=0.3V, I_O=2mA$		-	2	3	
	KRC671E	$V_O=0.3V, I_O=2mA$		-	3.9	5	
	KRC672E	$V_O=0.3V, I_O=1mA$		-	1.64	3	
	Input Voltage (OFF)	KRC666E		$V_{I(OFF)}$	$V_{CC}=5V, I_O=100\mu A$	0.3	0.63
KRC667E		0.5	1.15			-	
KRC668E		0.3	0.67			-	
KRC669E		0.3	0.82			-	
KRC670E		0.8	1.68			-	
KRC671E		1	3.09			-	
KRC672E		0.5	1.17			-	
Transition Frequency		KRC666E~672E	f_T^*			$V_O=10V, I_O=5mA$	-
Input Current	KRC666E	I_I	$V_I=5V$	-	-	7.2	mA
	KRC667E			-	-	3.8	
	KRC668E			-	-	3.8	
	KRC669E			-	-	1.8	
	KRC670E			-	-	0.88	
	KRC671E			-	-	0.16	
	KRC672E			-	-	0.15	
	Input Resistor			KRC666U	R1	-	
KRC667U		1.54	2.2	2.86			
KRC668U		1.54	2.2	2.86			
KRC669U		3.29	4.7	6.11			
KRC670U		7	10	13			
KRC671U		32.9	47	61.1			
KRC672U		70	100	130			
Resistor Ratio		KRC666U	R2/R1	-			8
	KRC667U	0.8			1.0	1.2	
	KRC668U	3.6			4.5	5.5	
	KRC669U	1.7			2.1	2.6	
	KRC670U	0.37			0.47	0.57	
	KRC671U	0.17			0.21	0.26	
	KRC672U	0.8			1.0	1.2	

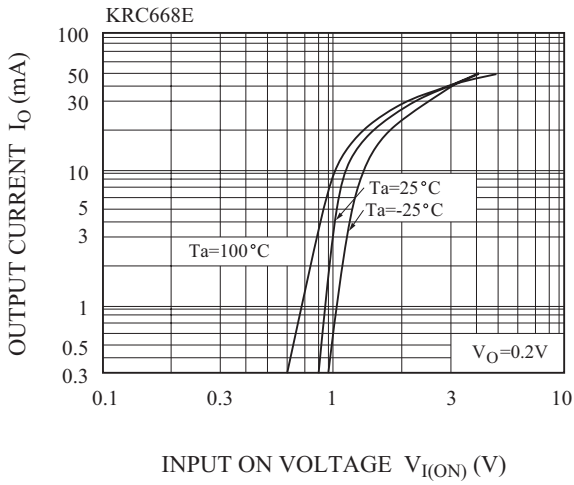
Note : * Characteristic of Transistor Only.

KRC666E~KRC672E

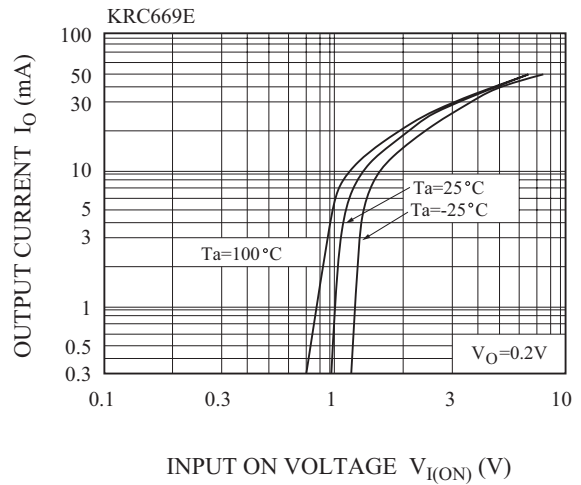


KRC666E~KRC672E

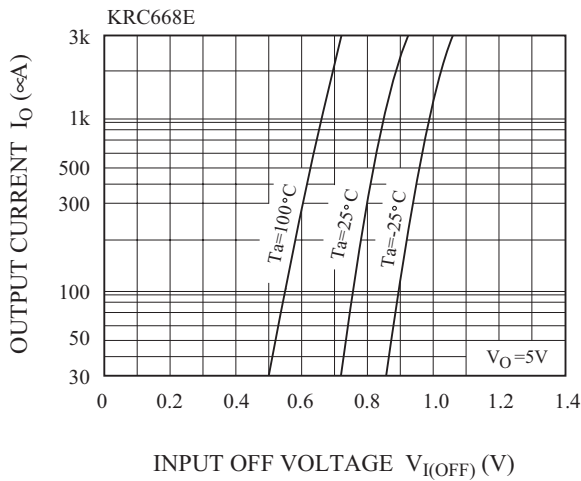
$I_O - V_{I(ON)}$



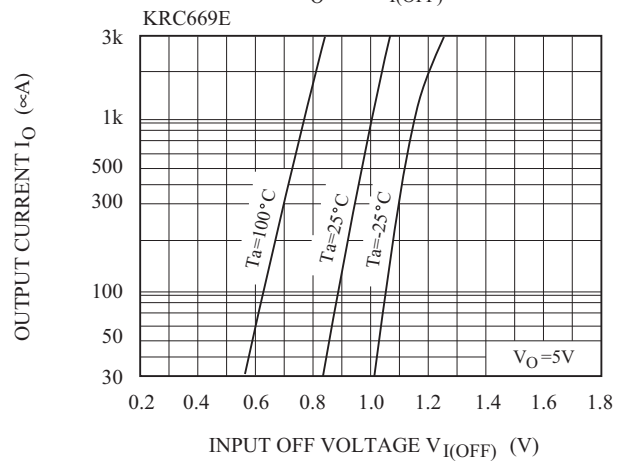
$I_O - V_{I(ON)}$



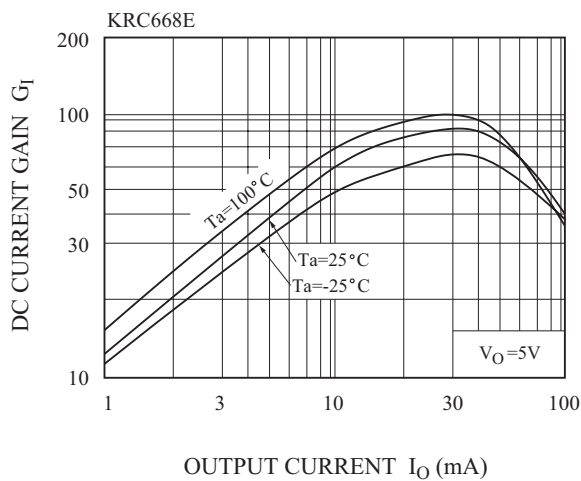
$I_O - V_{I(OFF)}$



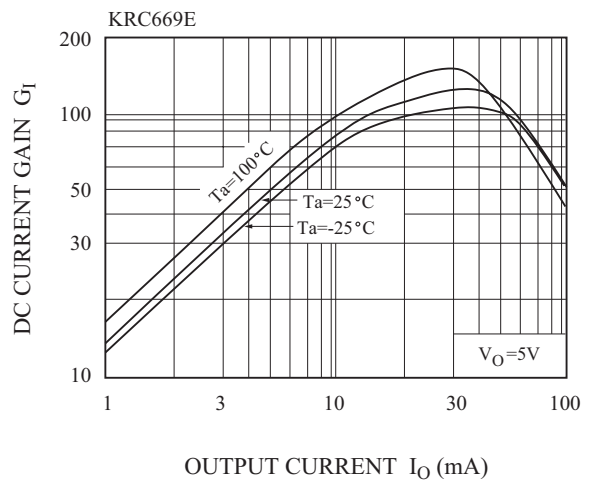
$I_O - V_{I(OFF)}$



$G_I - I_O$

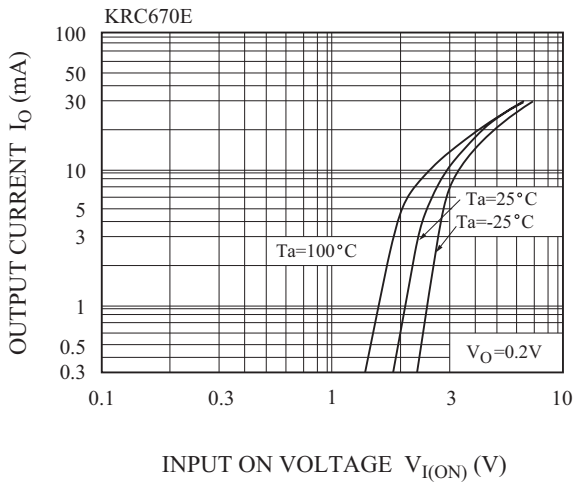


$G_I - I_O$

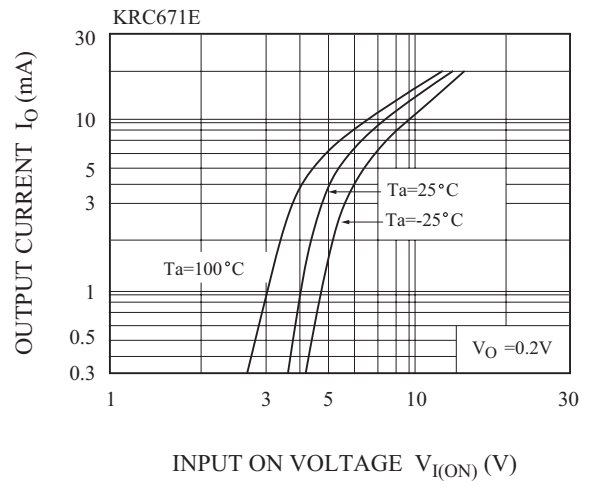


KRC666E~KRC672E

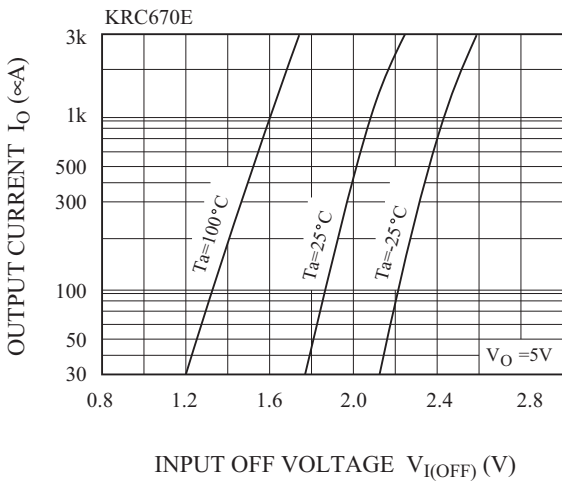
$I_O - V_{I(ON)}$



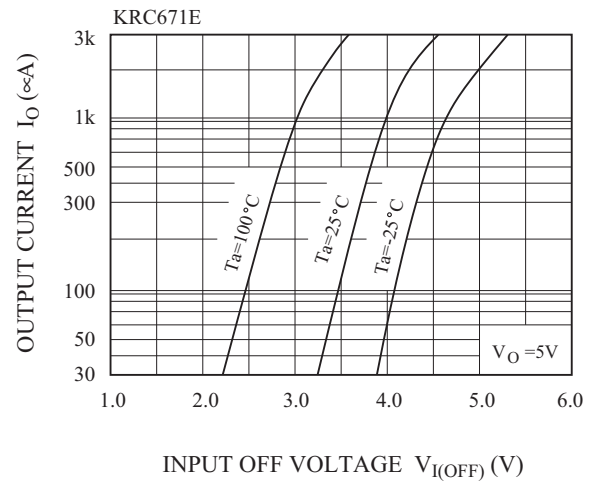
$I_O - V_{I(ON)}$



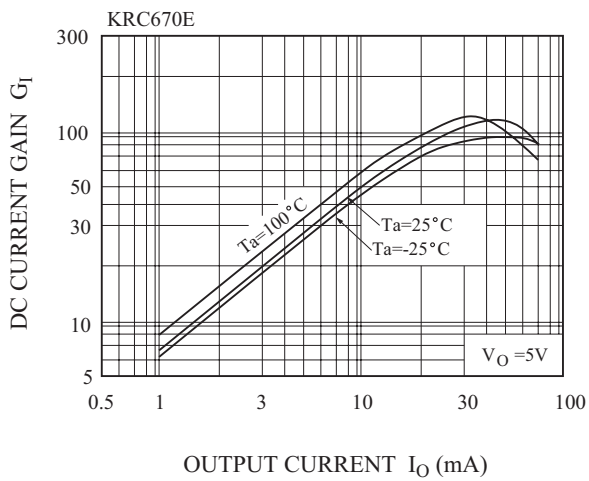
$I_O - V_{I(OFF)}$



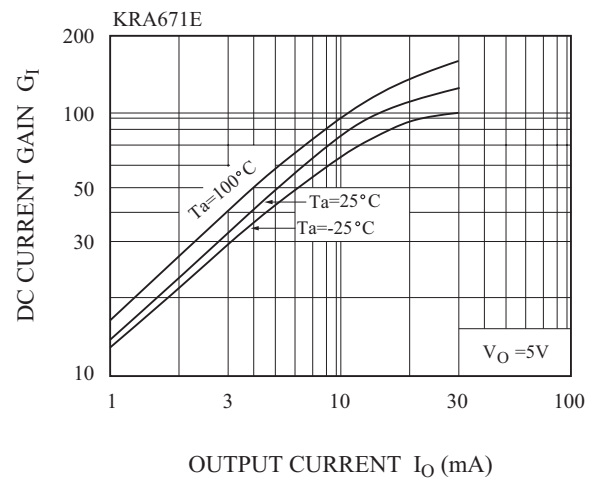
$I_O - V_{I(OFF)}$



$G_I - I_O$

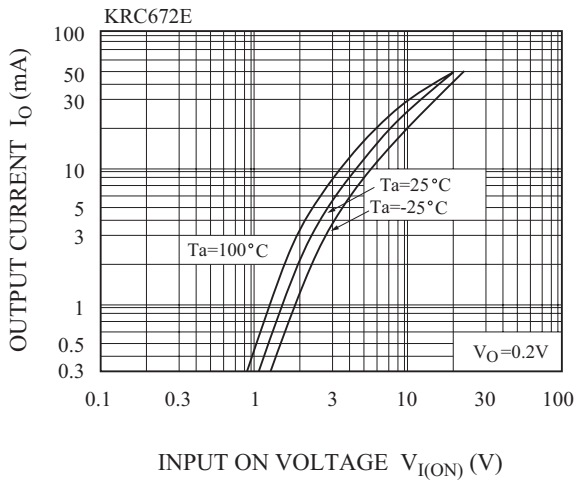


$G_I - I_O$

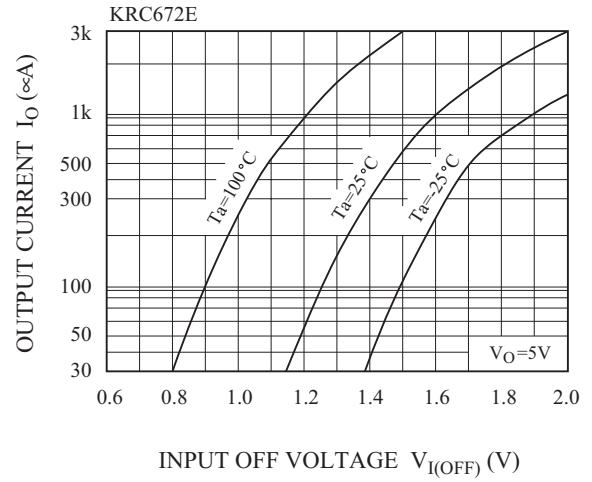


KRC666E~KRC672E

$I_O - V_{I(ON)}$



$I_O - V_{I(OFF)}$



$G_I - I_O$

