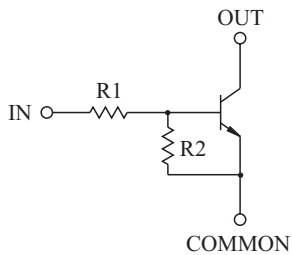


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

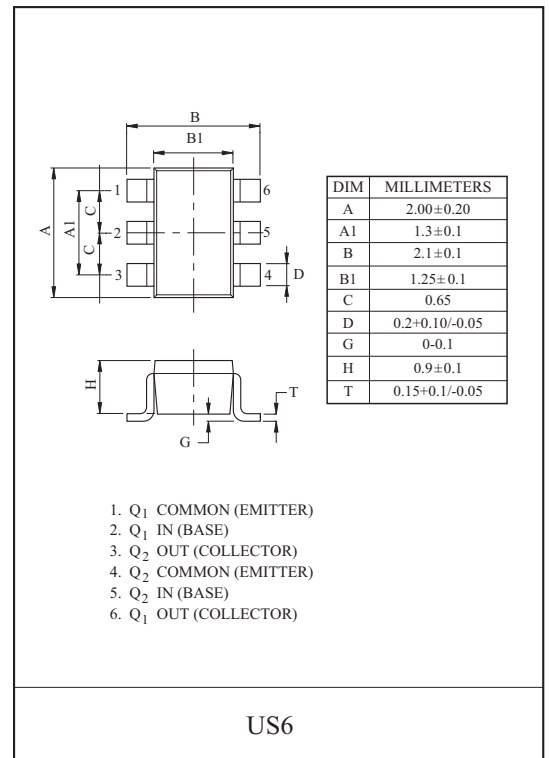
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

EQUIVALENT CIRCUIT

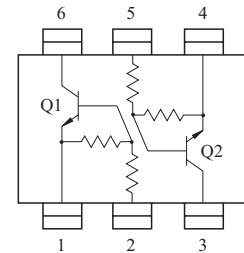


BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRC851U	4.7	4.7
KRC852U	10	10
KRC853U	22	22
KRC854U	47	47
KRC855U	2.2	47
KRC856U	4.7	47



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25 °C)

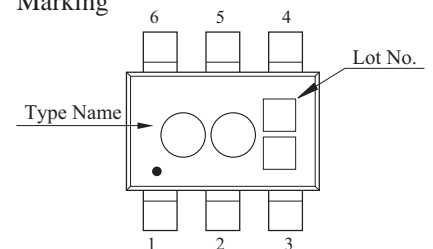
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC851U ~ 856U	V _O	50	V
Input Voltage	KRC851U	V _I	20, -10	V
	KRC852U		30, -10	
	KRC853U		40, -10	
	KRC854U		40, -10	
	KRC855U		12, -5	
	KRC856U		20, -5	
Output Current	KRC851U ~ 856U	I _O	100	mA
Power Dissipation		P _D *	200	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55 ~ 150	°C

* Total Rating.

MARK SPEC

TYPE	KRC851U	KRC852U	KRC853U	KRC854U	KRC855U	KRC856U
MARK	NA	NB	NC	ND	NE	NF

Marking



KRC851U~KRC856U

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC851U ~856U	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC851U	G_I	$V_O=5V, I_O=10mA$	30	55	-	
	KRC852U			50	80	-	
	KRC853U			70	120	-	
	KRC854U			80	200	-	
	KRC855U			80	200	-	
	KRC856U			80	200	-	
Output Voltage	KRC851U ~856U	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC851U	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.5	2.0	V
	KRC852U			-	1.8	2.4	
	KRC853U			-	2.1	3.0	
	KRC854U			-	2.8	5.0	
	KRC855U			-	0.8	1.1	
	KRC856U			-	0.9	1.3	
Input Voltage (OFF)	KRC851U ~854U	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	1.0	1.2	-	V
	KRC855U ~856U			0.5	0.65	-	
Transition Frequency	KRC851U ~856U	f_T^*	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current	KRC851U	I_I	$V_I=5V$	-	-	1.8	mA
	KRC852U			-	-	0.88	
	KRC853U			-	-	0.36	
	KRC854U			-	-	0.18	
	KRC855U			-	-	3.6	
	KRC856U			-	-	1.8	

Note : * Characteristic of Transistor Only.

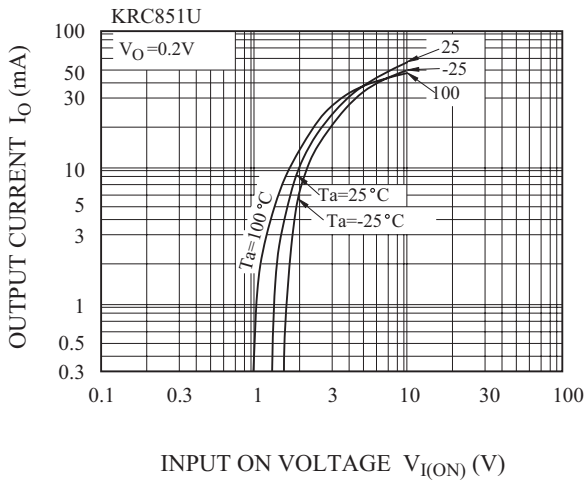
KRC851U~KRC856U

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

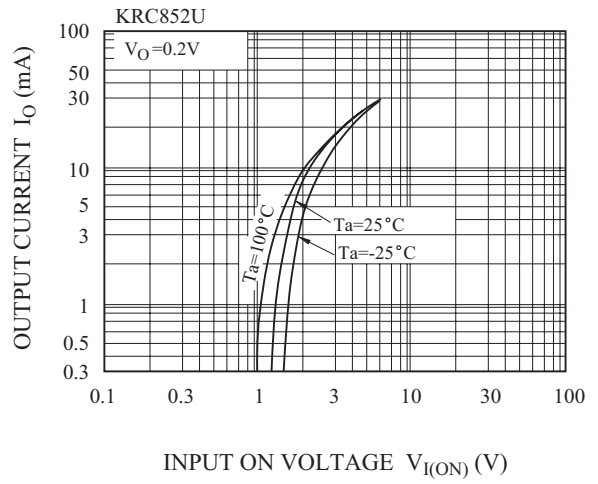
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Switching Time	Rise Time	KRC851U	V _O =5V V _{IN} =5V R _L =1k Ω	-	0.03	-	μS	
		KRC852U		-	0.05	-		
		KRC853U		-	0.12	-		
		KRC854U		-	0.22	-		
		KRC855U		-	0.01	-		
		KRC856U		-	0.03	-		
	Storage Time	KRC851U		t _{stg}	-	2.0		-
		KRC852U		-	-	2.0		-
		KRC853U		-	-	2.0		-
		KRC854U		-	-	2.0		-
		KRC855U		-	-	2.0		-
		KRC856U		-	-	2.0		-
	Fall Time	KRC851U		t _f	-	0.12		-
		KRC852U		-	-	0.36		-
		KRC853U		-	-	0.35		-
		KRC854U		-	-	0.6		-
		KRC855U		-	-	0.1		-
		KRC856U		-	-	0.19		-

KRC851U~KRC856U

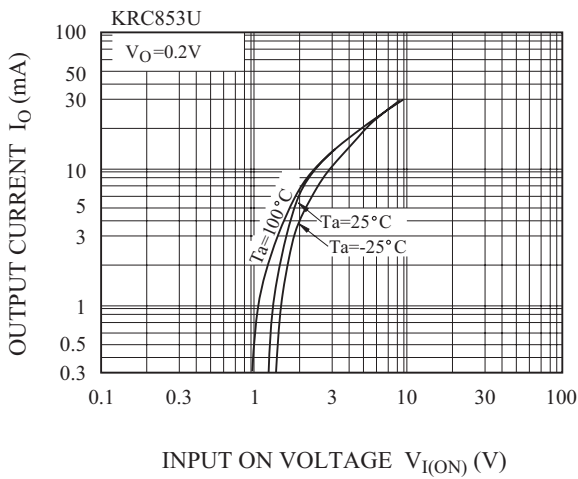
$I_O - V_{I(ON)}$



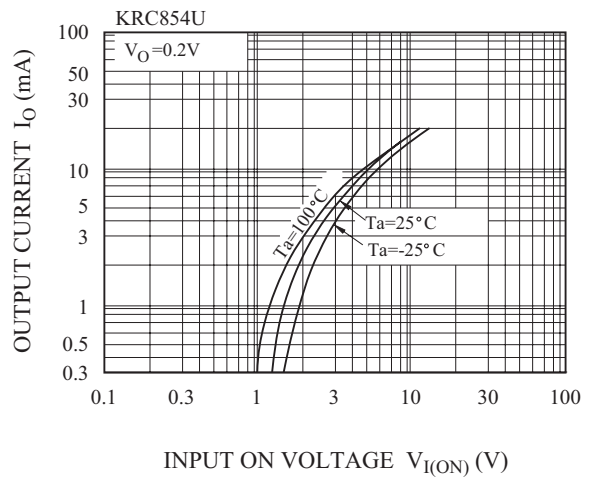
$I_O - V_{I(ON)}$



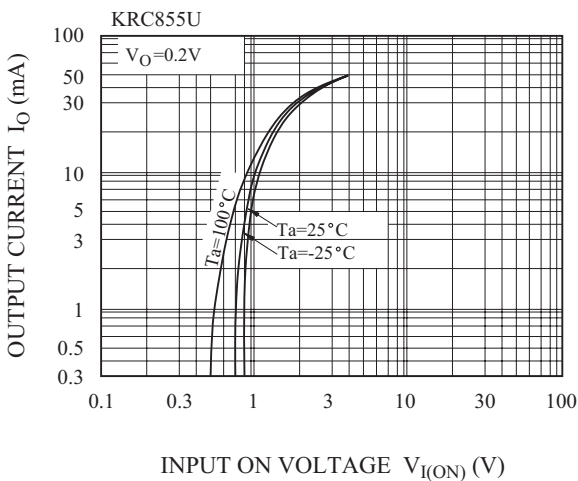
$I_O - V_{I(ON)}$



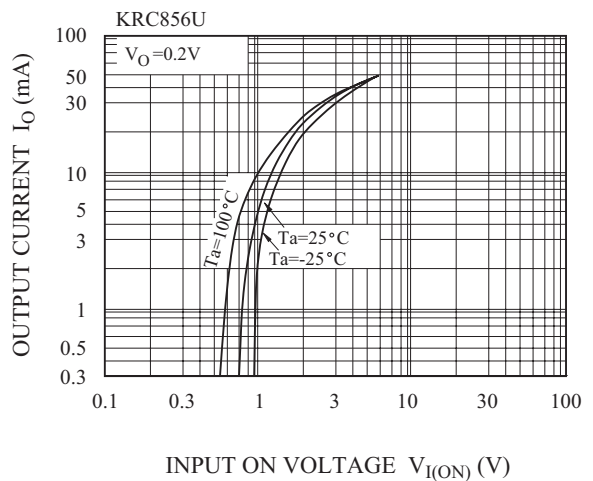
$I_O - V_{I(ON)}$



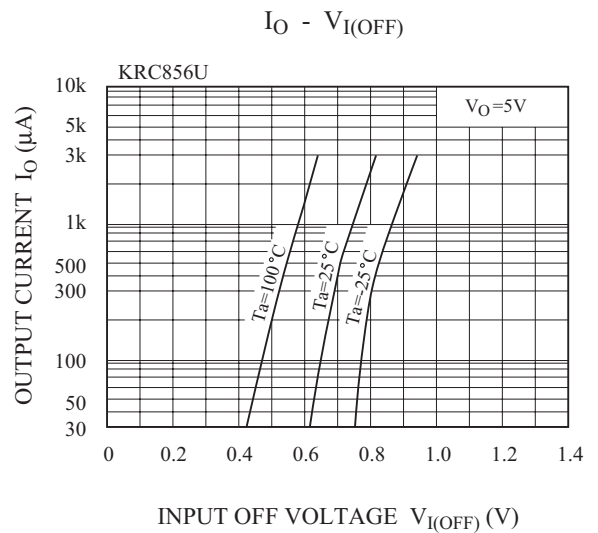
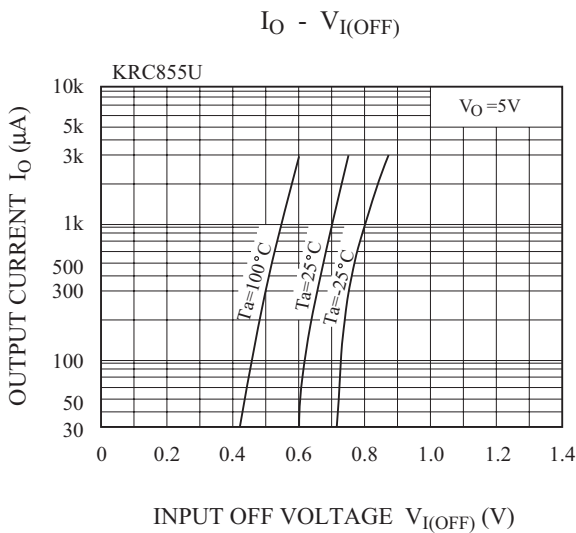
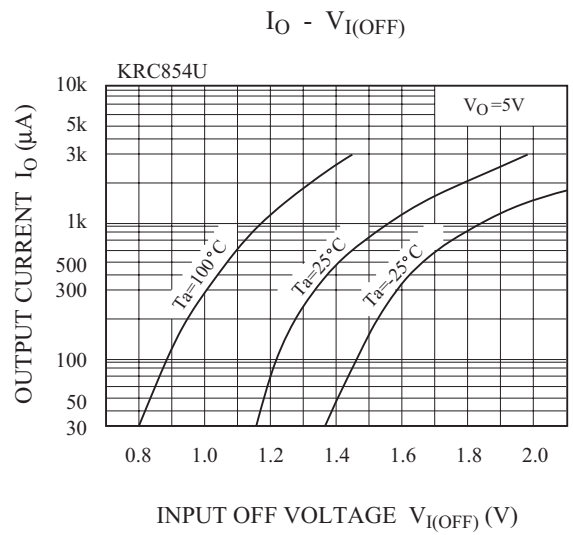
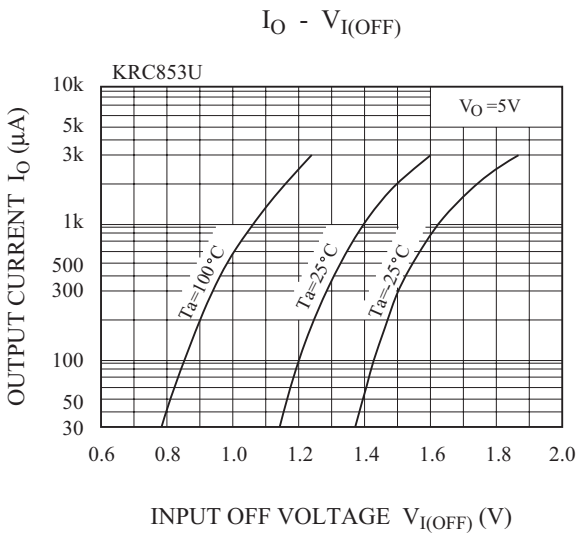
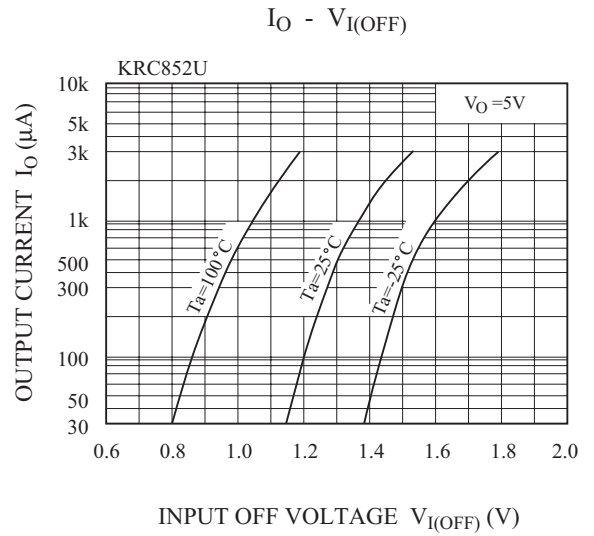
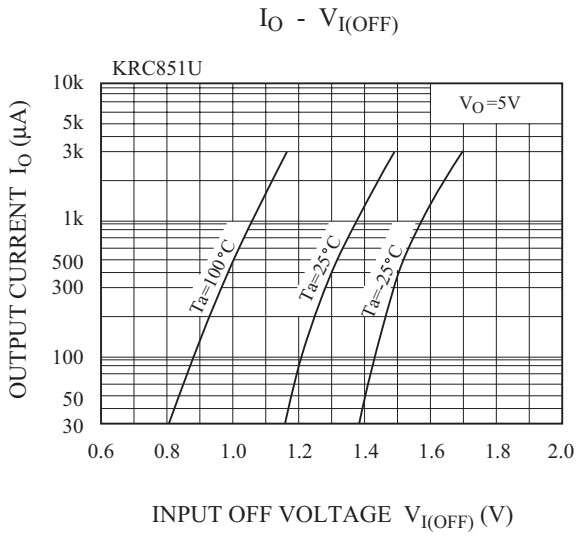
$I_O - V_{I(ON)}$



$I_O - V_{I(ON)}$

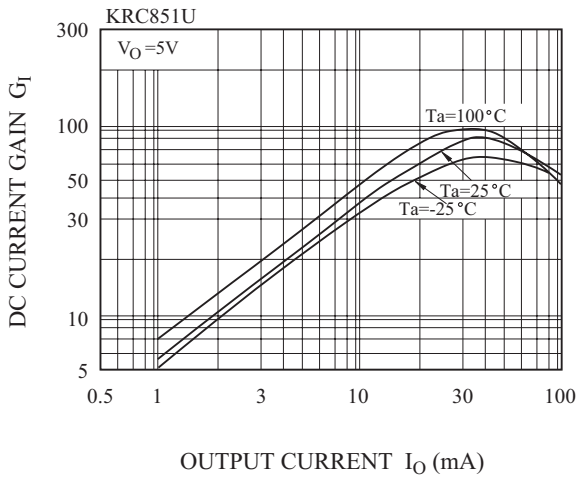


KRC851U~KRC856U

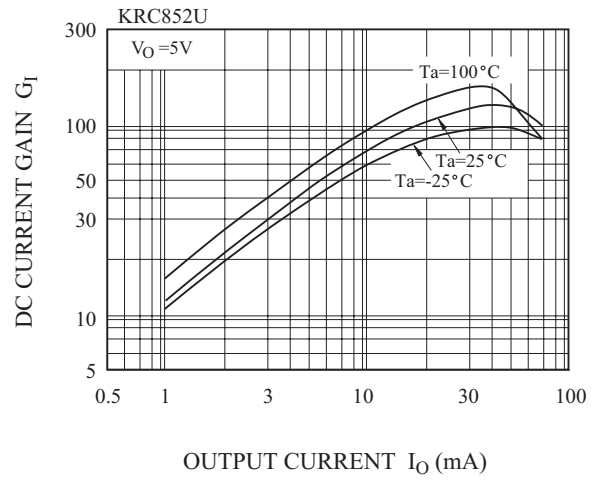


KRC851U~KRC856U

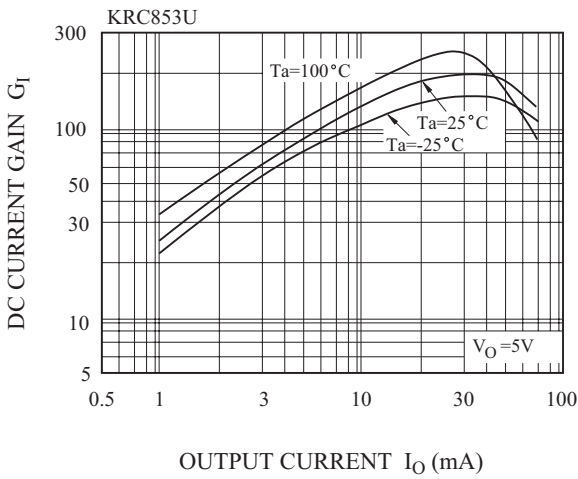
$G_I - I_O$



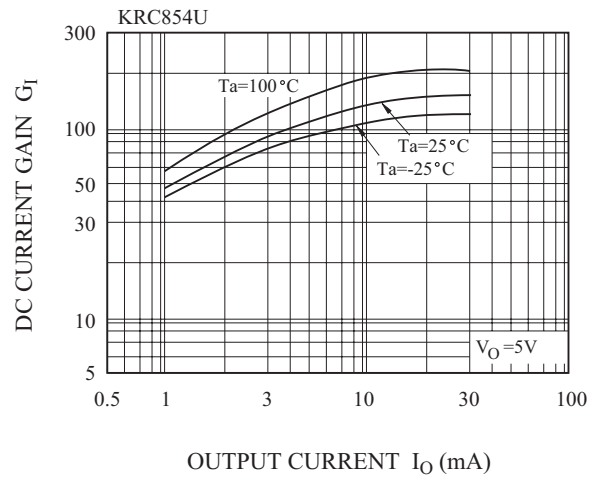
$G_I - I_O$



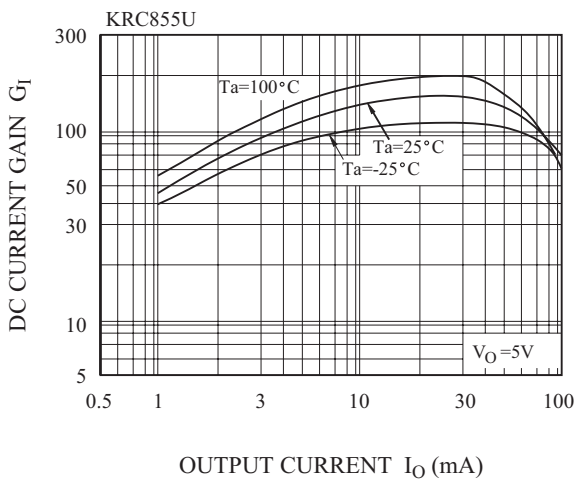
$G_I - I_O$



$G_I - I_O$



$G_I - I_O$



$G_I - I_O$

