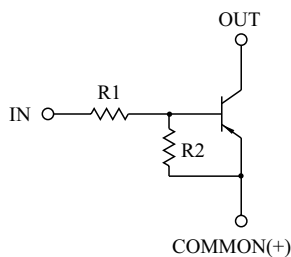


HIGH CURRENT SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPPLICATION.

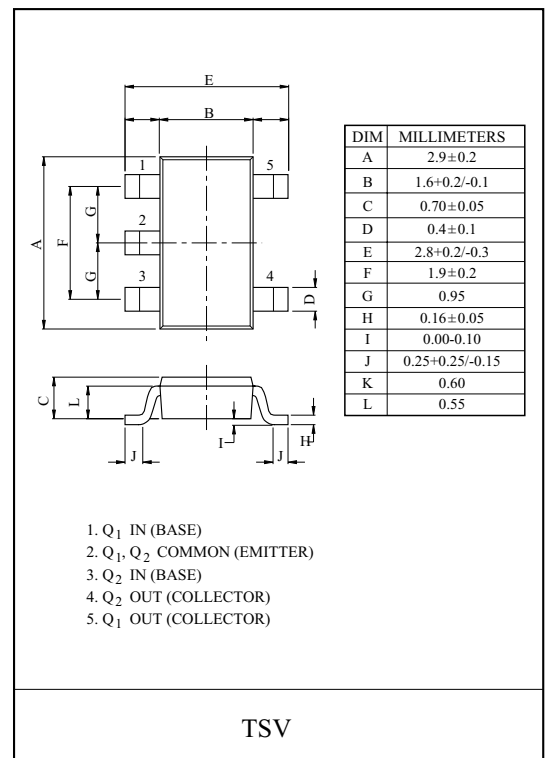
FEATURES

- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Output Current : -800mA.
- Suffix U : Qualified to AEC-Q101.
ex) KRA522T-RTK/HU

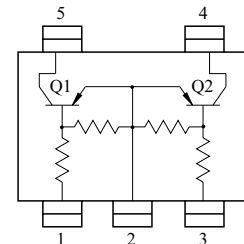
EQUIVALENT CIRCUIT



TYPE NO.	R1 (k Ω)	R2 (k Ω)
KRA521T	1	1
KRA522T	2.2	2.2
KRA523T	4.7	4.7
KRA524T	10	10
KRA525T	1	10
KRA526T	2.2	10



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25 °C)

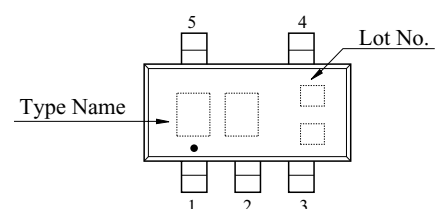
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA521T~526T	V _O	-50	V
Input Voltage	KRA521T	V _I	-10, 10	V
	KRA522T		-12, 10	
	KRA523T		-20, 10	
	KRA524T		-30, 10	
	KRA525T		-10, 5	
	KRA526T		-12, 6	
Output Current	KRA521T~526T	I _O	-800	mA
Power Dissipation		P _D *	0.9	W
Junction Temperature		T _j	-55~150	
Storage Temperature Range		T _{stg}	-55~150	

* Package mounted on a ceramic board (600mm² × 0.8mm)

MARK SPEC

TYPE	KRA521T	KRA522T	KRA523T	KRA524T	KRA525T	KRA526T
MARK	PA	PB	PC	PD	PE	PF

Marking



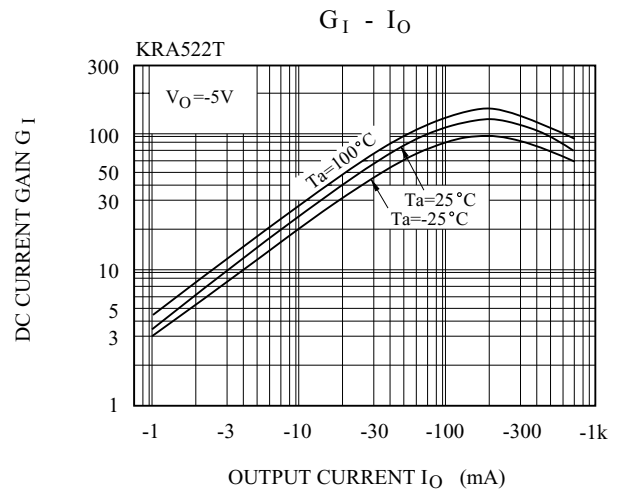
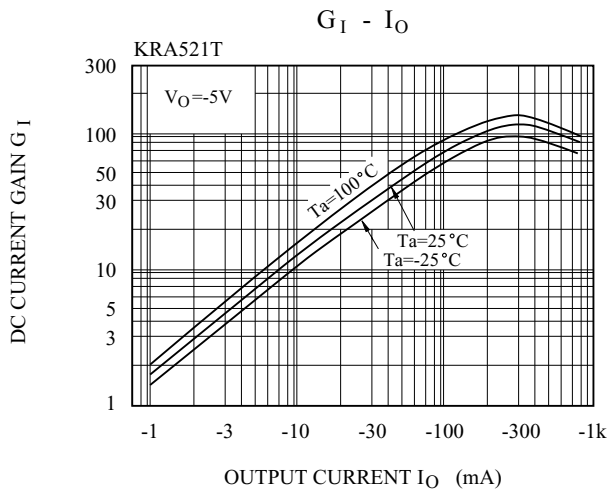
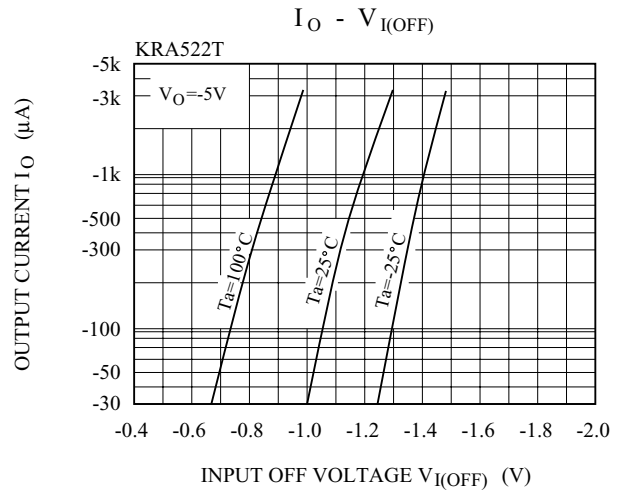
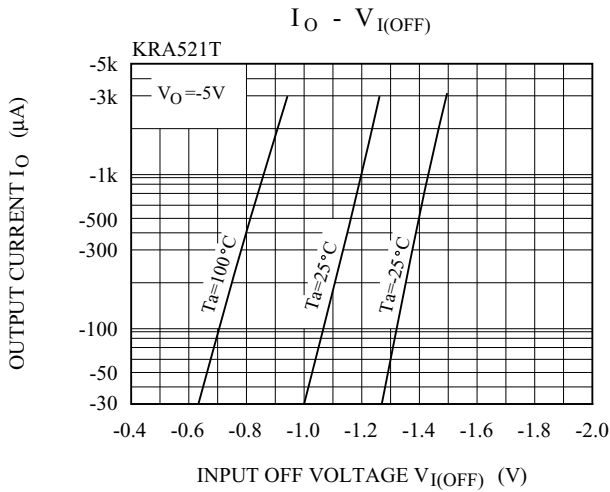
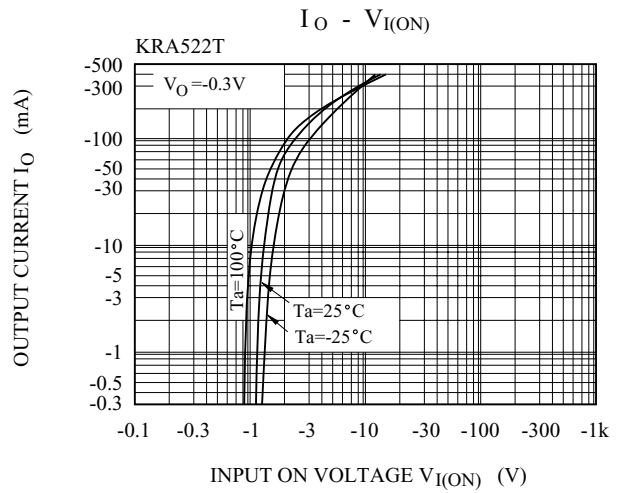
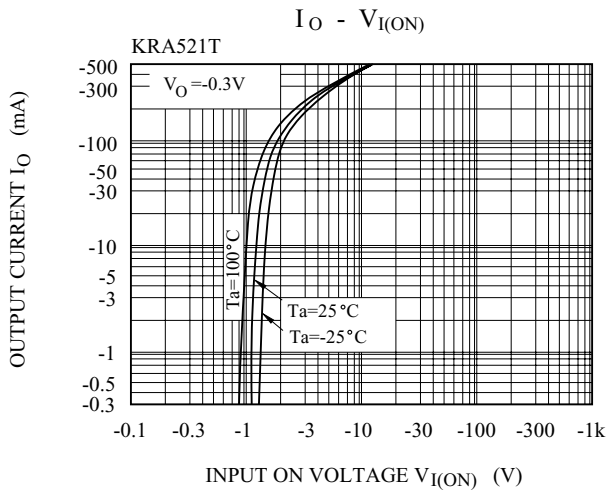
KRA521T~KRA526T

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

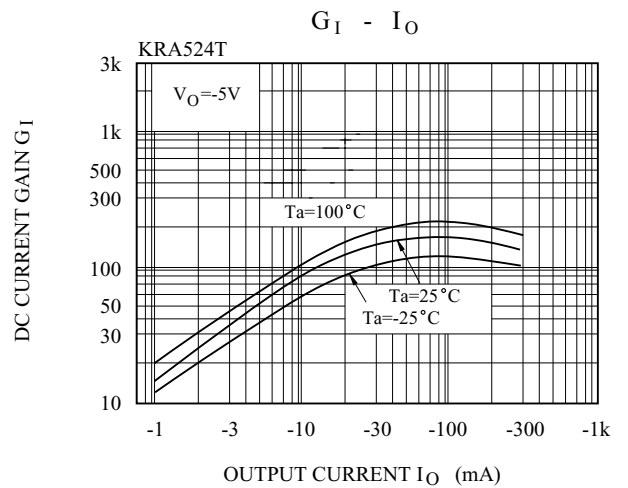
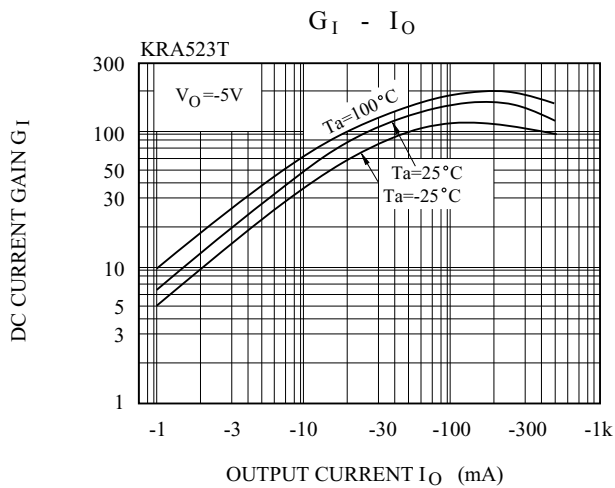
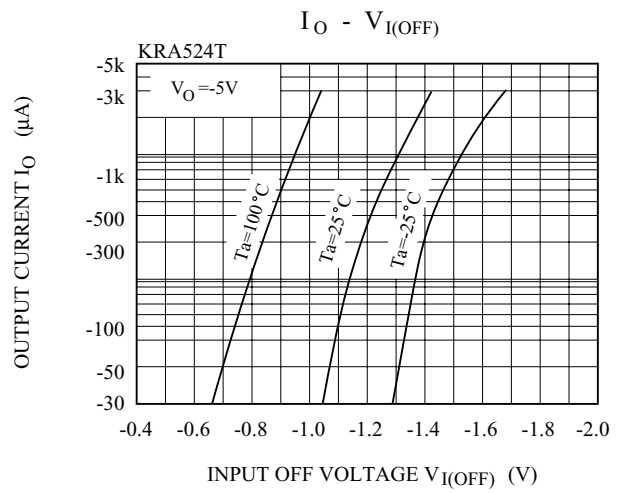
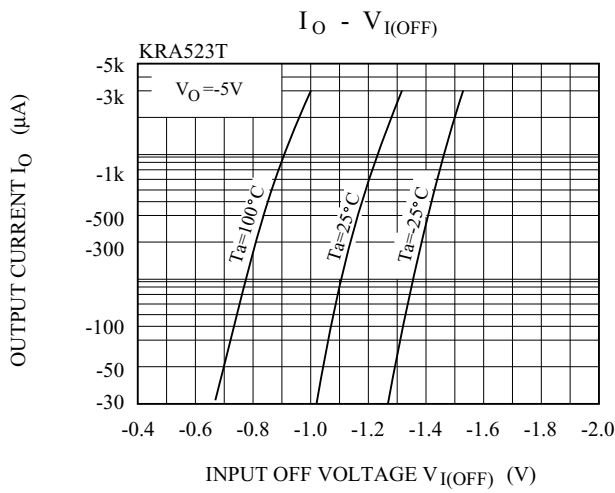
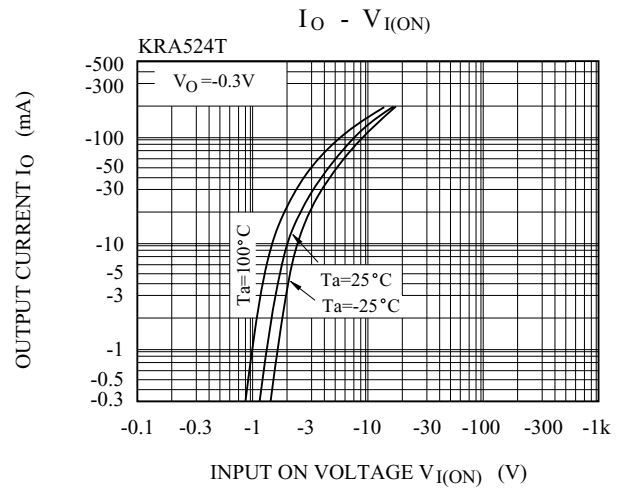
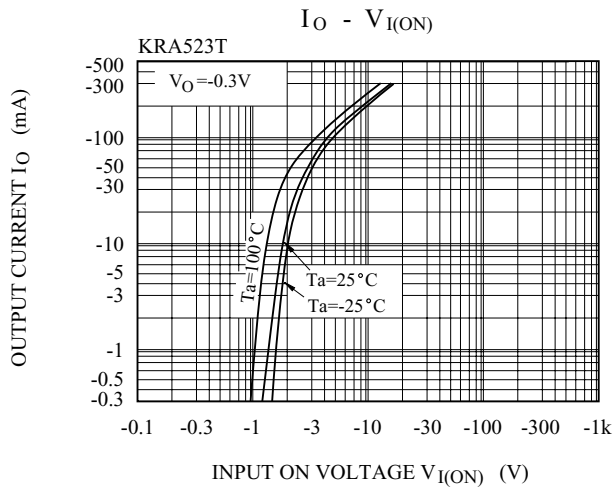
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA521T~526T	$I_{O(OFF)}$	$V_O=-30V, V_I=0$	-	-	-10	μA
DC Current Gain	KRA521T	G_I	$V_O=-5V, I_O=-50mA$	33	-	-	
	KRA522T			39	-	-	
	KRA523T			47	-	-	
	KRA524T			56	-	-	
	KRA525T			56	-	-	
	KRA526T			56	-	-	
Output Voltage	KRA521T~526T	$V_{O(ON)}$	$I_O=-50mA, I_I=-2.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	KRA521T	$V_{I(ON)}$	$V_O=-0.3V, I_O=-20mA$	-	-	-3.0	V
	KRA522T			-	-	-3.0	
	KRA523T			-	-	-3.0	
	KRA524T			-	-	-3.0	
	KRA525T			-	-	-3.0	
	KRA526T			-	-	-2.0	
Input Voltage (OFF)	KRA521T~524T	$V_{I(OFF)}$	$V_O=-5V, I_O=-0.1mA$	-0.5	-	-	V
	KRA525T~526T			-0.3	-	-	
Transition Frequency	KRA521T~526T	f_T^*	$V_O=-10V, I_O=-5mA, f=100MHz$	-	200	-	MHz
Input Current	KRA521T	I_I	$V_I=-5V$	-	-	-7.2	mA
	KRA522T			-	-	-3.8	
	KRA523T			-	-	-1.8	
	KRA524T			-	-	-0.88	
	KRA525T			-	-	-7.2	
	KRA526T			-	-	-3.6	
Input Resistor	KRA521T	R1	-	0.7	1	1.3	k Ω
	KRA522T			1.54	2.2	2.86	
	KRA523T			3.29	4.7	6.11	
	KRA524T			7	10	13	
	KRA525T			0.7	1	1.3	
	KRA526T			1.54	2.2	2.86	
Resistor Ratio	KRA521T~524T	R2/R1	-	0.8	1	1.2	
	KRA525T			8	10	12	
	KRA526T			3.6	4.5	5.5	

Note : * Characteristic of Transistor Only.

KRA521T~KRA526T



KRA521T~KRA526T



KRA521T~KRA526T

