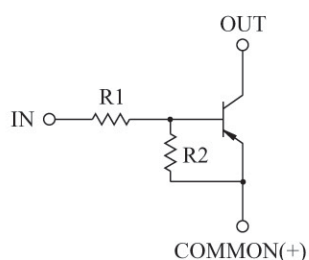


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

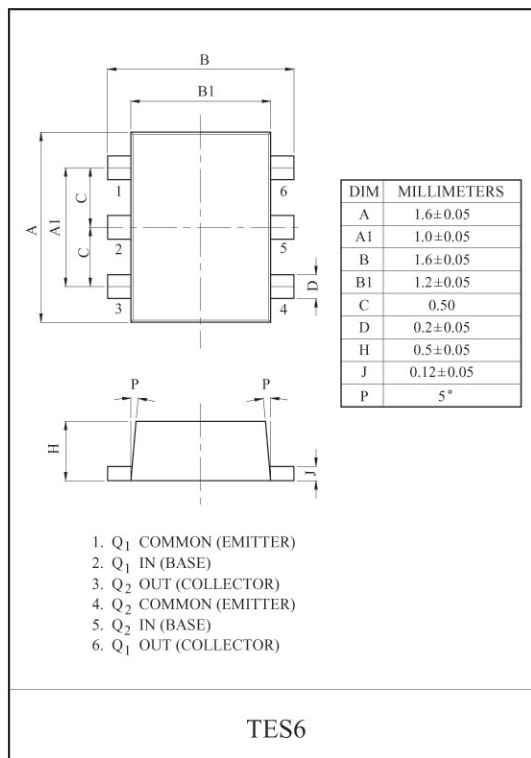
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process
- High Packing Density.

EQUIVALENT CIRCUIT

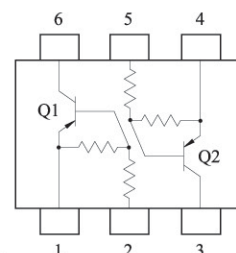


BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRA757E	10	47
KRA758E	22	47
KRA759E	47	22



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25°C)

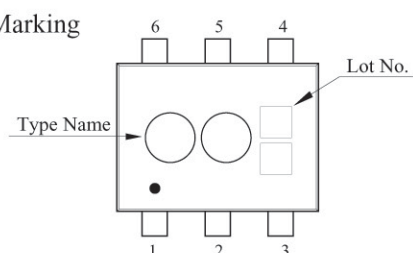
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA757E~759E	V_o	-50	V
Input Voltage	KRA757E	V_i	-30 6	V
	KRA758E		-40 7	
	KRA759E		-40 15	
Output Current	KRA757E~759E	I_o	-100	mA
Power Dissipation		P_D	200	mW
Junction Temperature		T	150	°C
Storage Temperature Range		T_{stg}	-55 ~ 150	°C

Total Rating.

MARK SPEC

TYPE	KRA757E	KRA758E	KRA759E
MARK	PH	PI	PJ

Marking



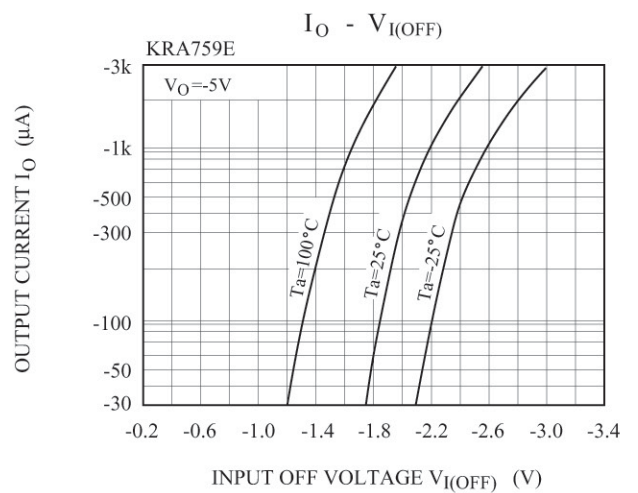
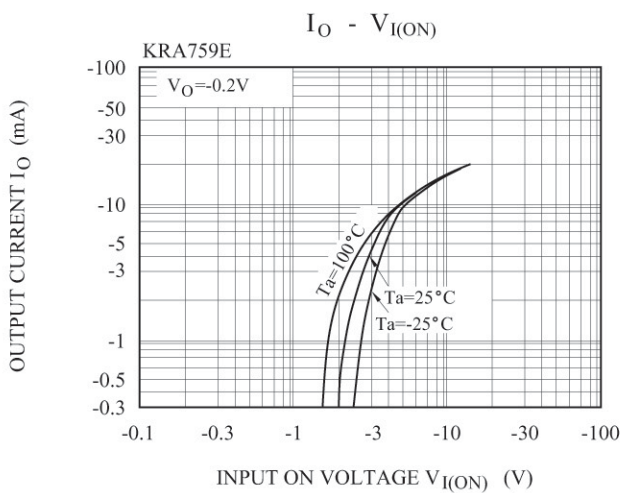
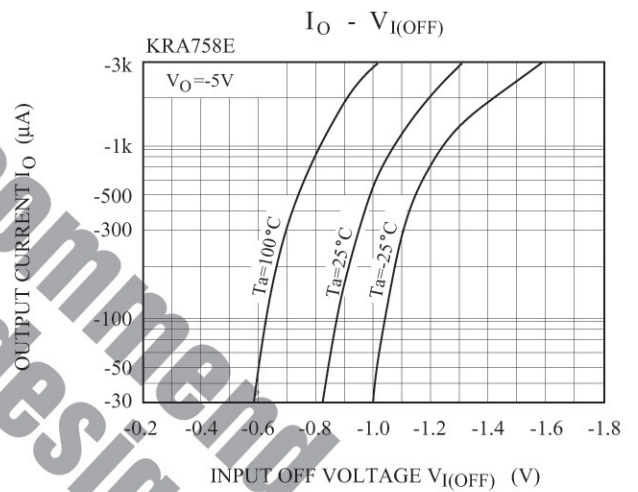
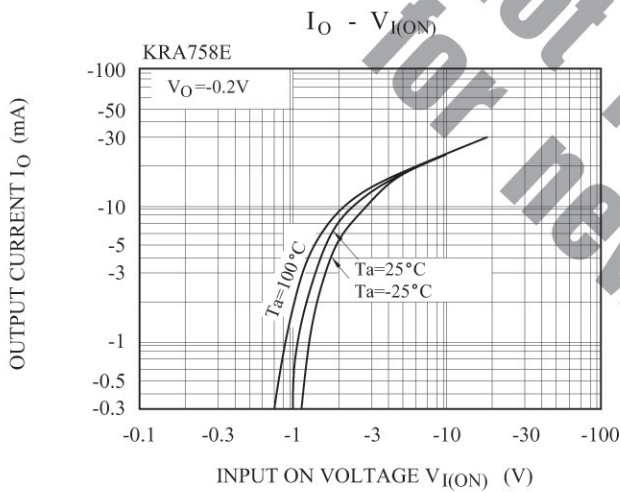
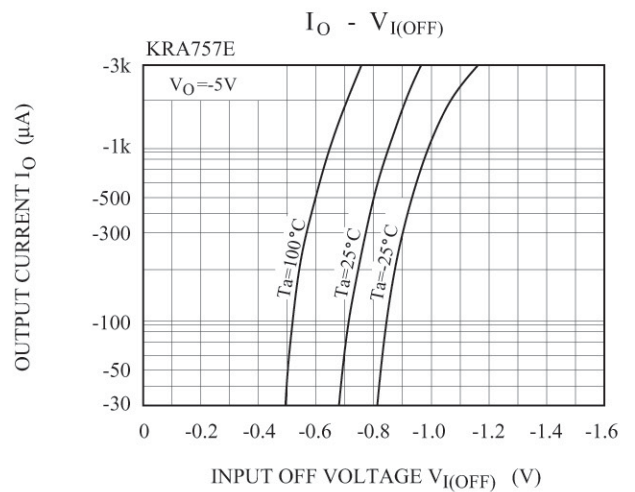
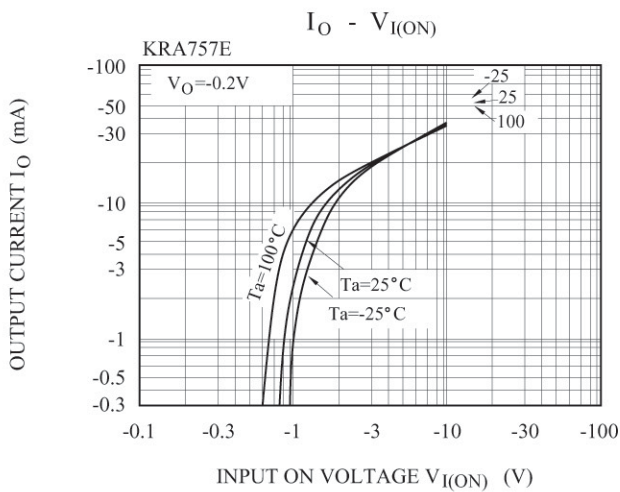
KRA757E~KRA759E

ELECTRICAL CHARACTERISTICS (Ta=25°C)

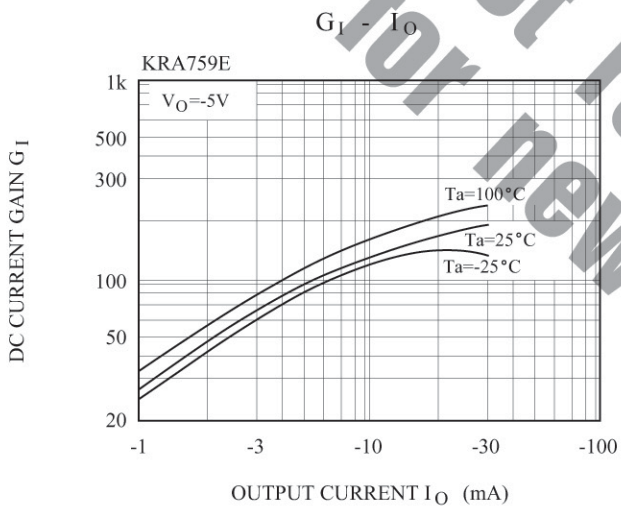
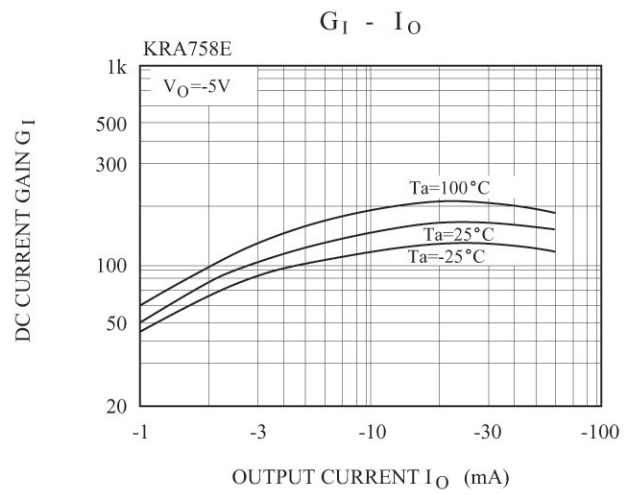
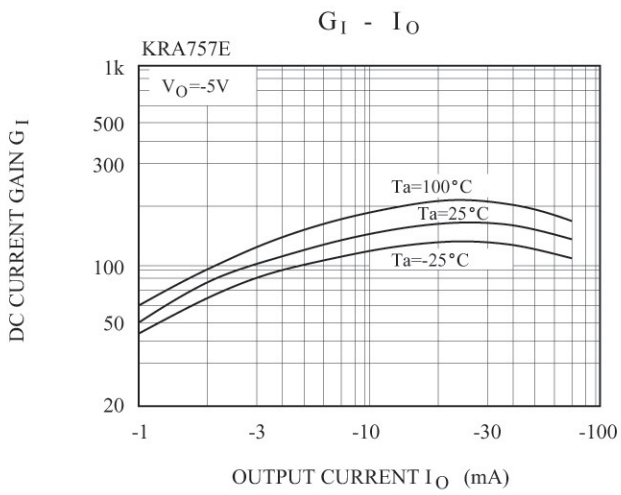
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT		
Output Cut-off Current		KRA757E ~ 759E	$I_{O(OFF)}$	$V_O=-50V, V_I=0$	-	-	-500	nA	
DC Current Gain	KRA757E		G_I	$V_O=-5V, I_O=-10mA$	80	150	-		
	KRA758E				80	150	-		
	KRA759E				70	140	-		
Output Voltage		KRA757E ~ 759E	$V_{O(ON)}$	$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	V	
Input Voltage (ON)	KRA757E		$V_{I(ON)}$	$V_O=-0.2V, I_O=-5mA$	-	-1.2	-1.8	V	
	KRA758E				-	-1.8	-2.6		
	KRA759E				-	-3.0	-5.8		
Input Voltage (OFF)	KRA757E		$V_{I(OFF)}$	$V_O=-5V, I_O=-0.1mA$	-0.5	-0.75	-	V	
	KRA758E				-0.6	-0.88	-		
	KRA759E				-1.5	-1.82	-		
Transition Frequency		KRA757E ~ 759E	f_T^*	$V_O=-10V, I_O=-5mA$	-	200	-	MHz	
Input Current	KRA757E		I_I	$V_I=-5V$	-	-	-0.88	mA	
	KRA758E				-	-	-0.36		
	KRA759E				-	-	-0.16		
Switching Time	Rise Time	KRA757E	t_r	$V_O=-5V, V_{IN}=-5V$ $R_L=1k\Omega$	-	0.07	-	μS	
		KRA758E			-	0.20	-		
		KRA759E			-	0.38	-		
	Storage Time	KRA757E			-	1.1	-		
		KRA758E			-	1.3	-		
		KRA759E			-	0.7	-		
	Fall Time	KRA757E			t_f	-	0.35		-
		KRA758E				-	0.4		-
		KRA759E				-	0.48		-
Input Resistor	KRA757E		R1	-	7	10	13	k Ω	
	KRA758E				15.4	22	28.6		
	KRA759E				32.9	47	61.1		
Resistor Ratio	KRA757E		R2/R1	-	3.7	4.7	5.7		
	KRA758E				1.7	2.1	2.6		
	KRA759E				0.37	0.47	0.57		

Note : * Characteristic of Transistor Only.

KRA757E~KRA759E



KRA757E~KRA759E



Not recommend for new design