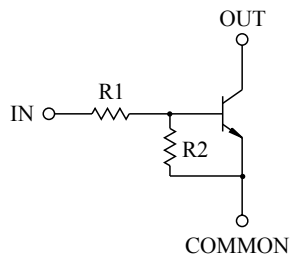


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

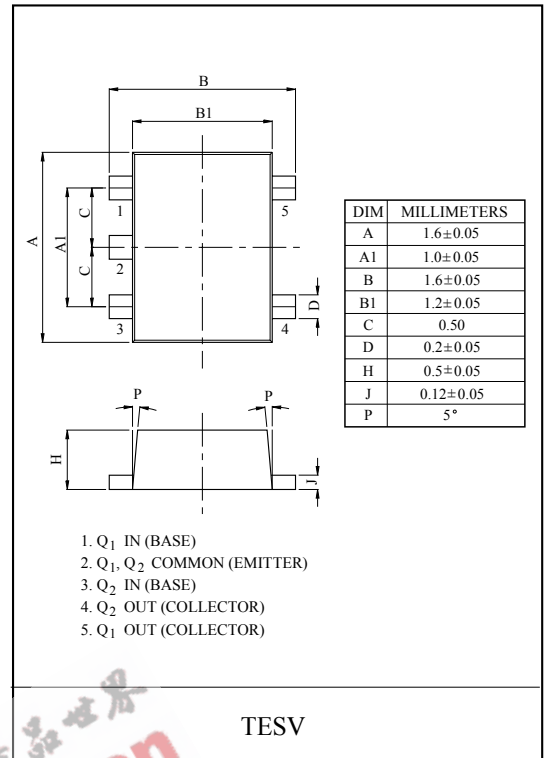
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

EQUIVALENT CIRCUIT

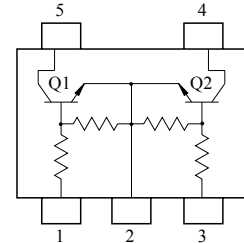


BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRC657E	10	47
KRC658E	22	47
KRC659E	47	22



EQUIVALENT CIRCUIT (TOP VIEW)



MAXIMUM RATING (Ta=25°C)

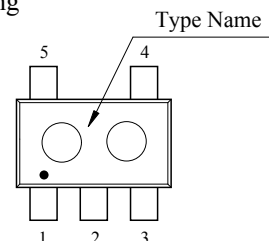
CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC657E ~ 659E	V_O	50	V
Input Voltage	KRC657E	V_i	30, -6	V
	KRC658E		40, -7	
	KRC659E		40, -15	
Output Current	KRC657E ~ 659E	I_O	100	mA
Power Dissipation		P_D^*	200	mW
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55 ~ 150	°C

* Total Rating.

Marking

MARK SPEC

TYPE	KRC657E	KRC658E	KRC659E
MARK	NH	NI	NJ



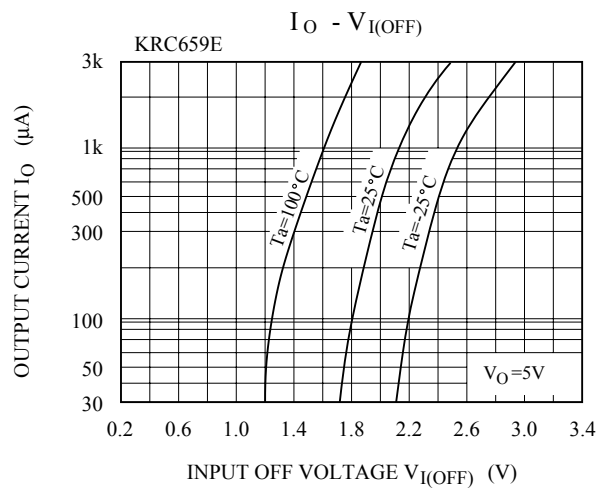
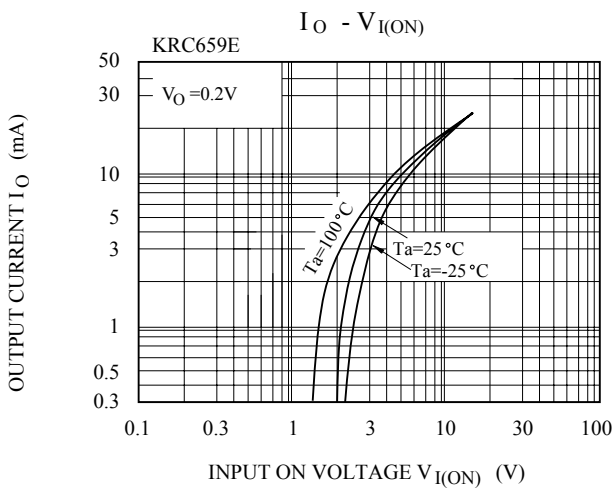
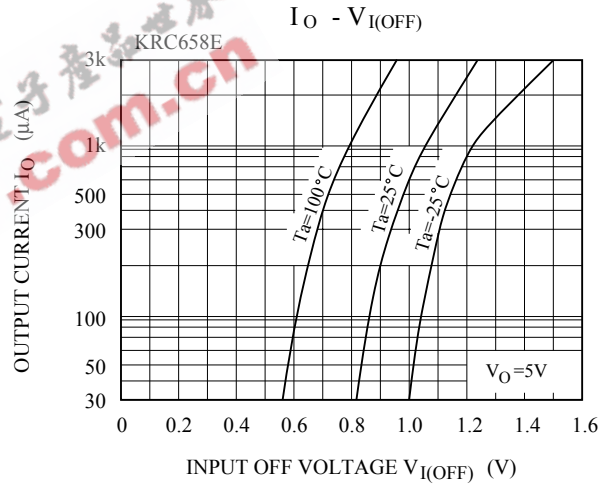
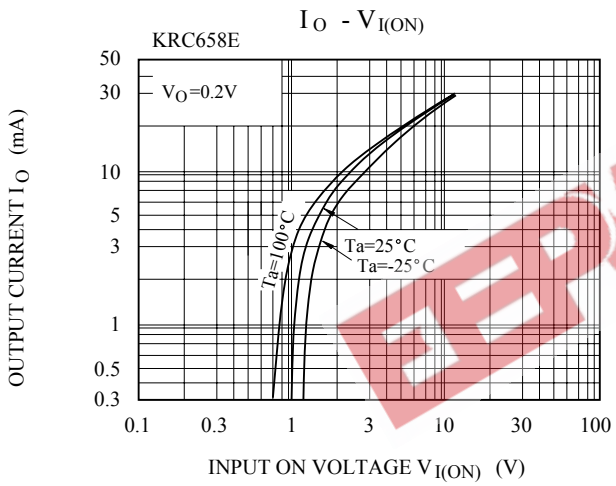
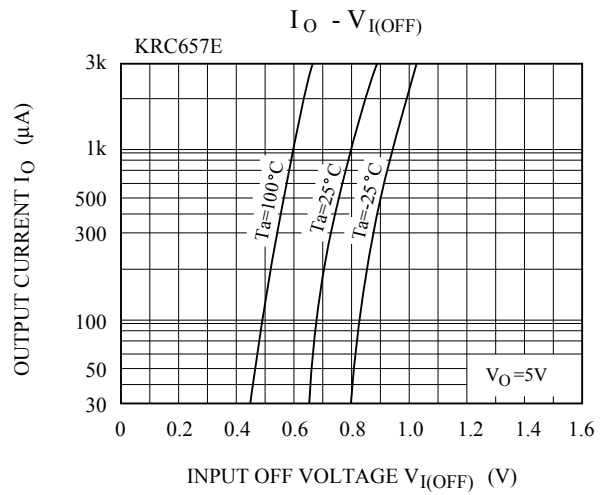
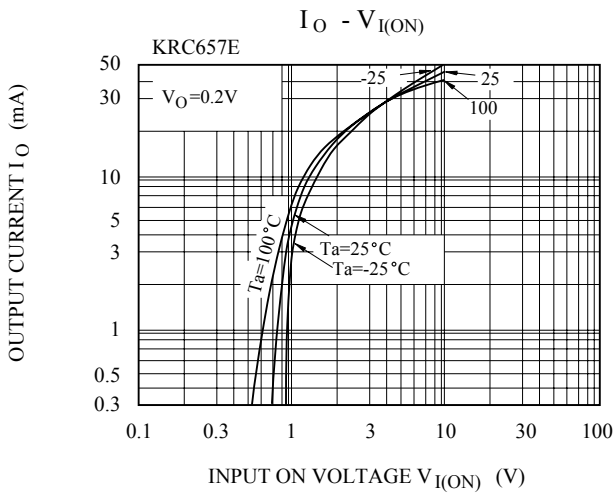
KRC657E~KRC659E

ELECTRICAL CHARACTERISTICS (Ta=25°C)

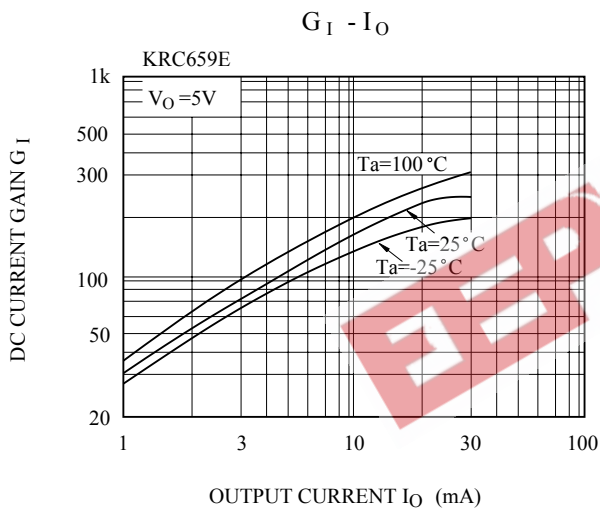
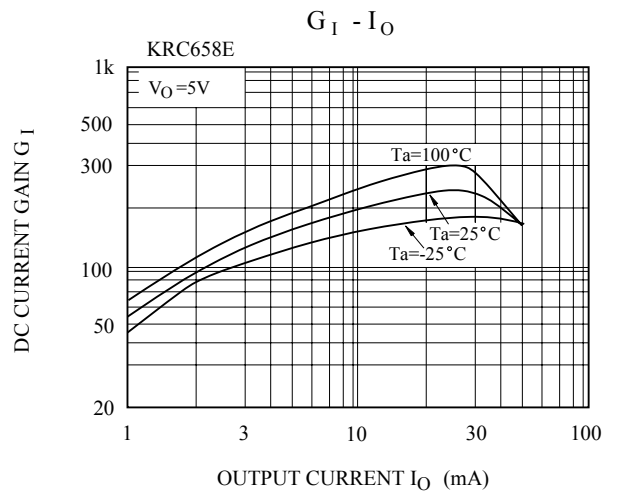
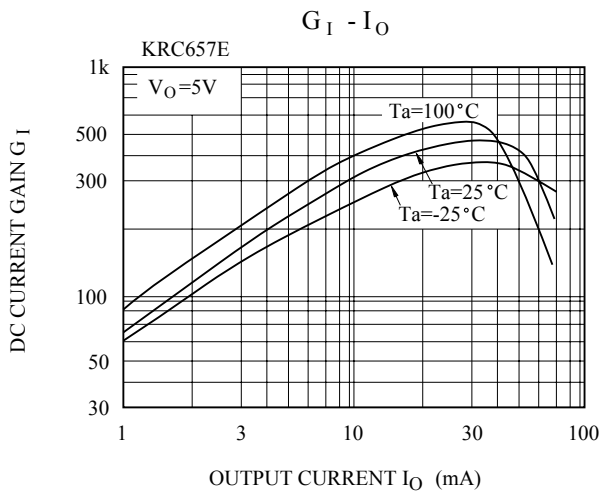
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT		
Output Cut-off Current		KRC657E ~ 659E	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA	
DC Current Gain	KRC657E	G_I	$V_O=5V, I_O=10mA$	80	150	-			
	KRC658E			80	150	-			
	KRC659E			70	140	-			
Output Voltage		KRC657E ~ 659E	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V	
Input Voltage (ON)	KRC657E	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.2	1.8	V		
	KRC658E			-	1.8	2.6			
	KRC659E			-	3.0	5.8			
Input Voltage (OFF)	KRC657E	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	0.5	0.75	-	V		
	KRC658E			0.6	0.88	-			
	KRC659E			1.5	1.82	-			
Transition Frequency		KRC657E ~ 659E	f_T^*	$V_O=10V, I_O=5mA$	-	200	-	MHz	
Input Current	KRC657E	I_I	$V_I=5V$	-	-	0.88	mA		
	KRC658E			-	-	0.36			
	KRC659E			-	-	0.16			
Switching Time	Rise Time	KRC657E	t_r	$V_O=5V, V_{IN}=5V$ $R_L=1k\Omega$	-	0.05	-	μS	
		KRC658E			-	0.12	-		
		KRC659E			-	0.26	-		
	Storage Time	KRC657E			t_{stg}	-	2.0		-
		KRC658E				-	2.4		-
		KRC659E				-	1.5		-
	Fall Time	KRC657E			t_f	-	0.36		-
		KRC658E				-	0.4		-
		KRC659E				-	0.41		-

Note : * Characteristic of Transistor Only.

KRC657E~KRC659E



KRC657E~KRC659E



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