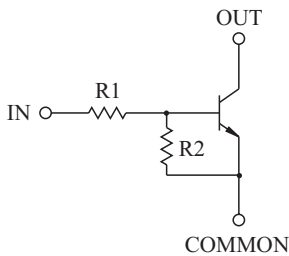


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

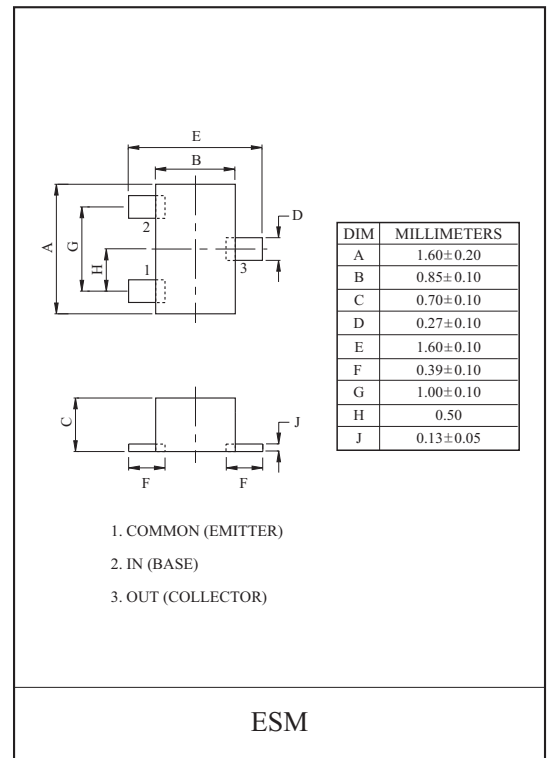
- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process
- High Packing Density.
- Suffix U : Qualified to AEC-Q101.  
ex) KRC407E-RTK/HU

### EQUIVALENT CIRCUIT



### BIAS RESISTOR VALUES

TYPE NO.	R1(k )	R2(k )
KRC407E	10	47
KRC408E	22	47
KRC409E	47	22

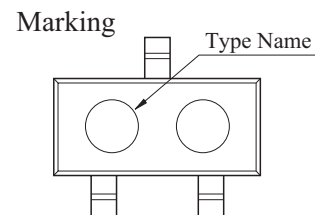


### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC407E 409E	$V_O$	50	V
Input Voltage	KRC407E	$V_I$	30, -6	V
	KRC408E		40, -7	
	KRC409E		40, -15	
Output Current	KRC407E 409E	$I_O$	100	mA
Power Dissipation		$P_D$	100	mW
Junction Temperature		$T_j$	-55~150	
Storage Temperature Range		$T_{stg}$	-55 150	

### MARK SPEC

TYPE	KRC407E	KRC408E	KRC409E
MARK	NH	NI	NJ



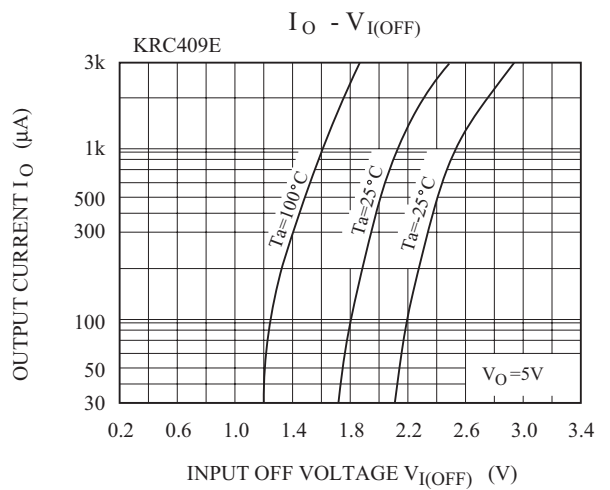
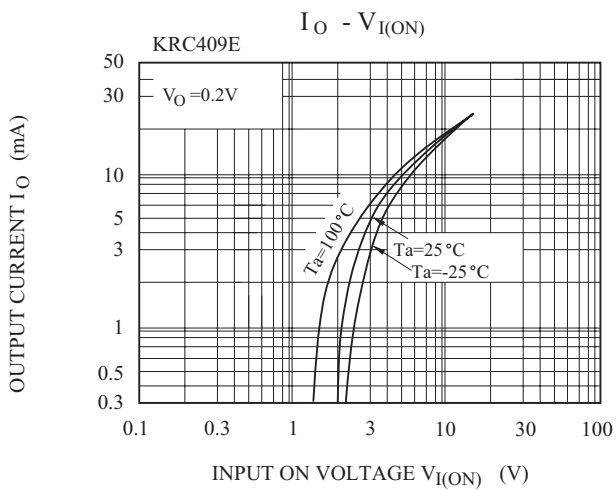
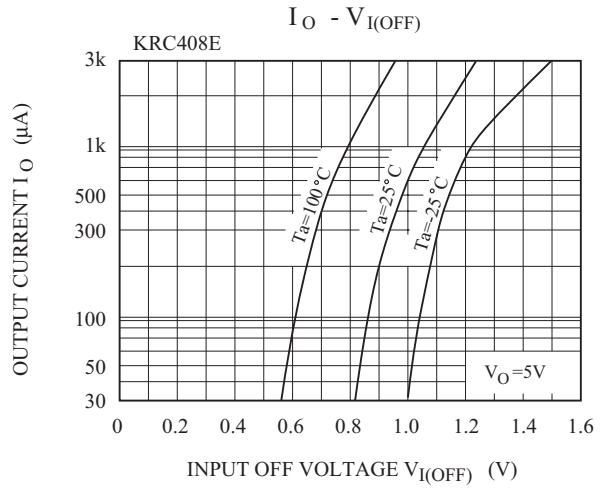
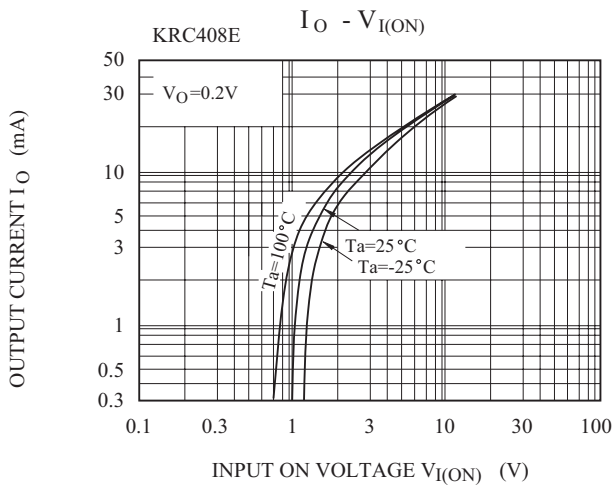
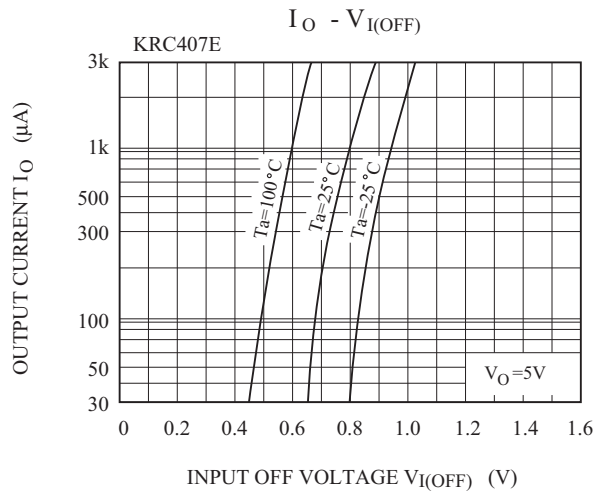
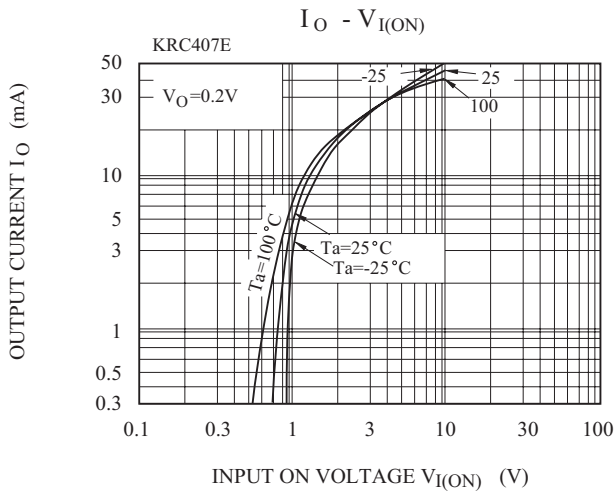
# KRC407E~KRC409E

## ELECTRICAL CHARACTERISTICS (Ta=25 )

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Output Cut-off Current	KRC407E 409E	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA	
DC Current Gain	KRC407E	$G_I$	$V_O=5V, I_O=10mA$	80	150	-		
	KRC408E			80	150	-		
	KRC409E			70	140	-		
Output Voltage	KRC407E 409E	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V	
Input Voltage (ON)	KRC407E	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.2	1.8	V	
	KRC408E			-	1.8	2.6		
	KRC409E			-	3.0	5.8		
Input Voltage (OFF)	KRC407E	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	0.5	0.75	-	V	
	KRC408E			0.6	0.88	-		
	KRC409E			1.5	1.82	-		
Transition Frequency	KRC407E 409E	$f_T^*$	$V_O=10V, I_O=5mA$	-	200	-	MHz	
Input Current	KRC407E	$I_I$	$V_I=5V$	-	-	0.88	mA	
	KRC408E			-	-	0.36		
	KRC409E			-	-	0.16		
Switching Time	Rise Time	KRC407E	$V_O=5V, V_{IN}=5V$ $R_L=1k$	-	0.05	-	$\mu s$	
		KRC408E		-	0.12	-		
		KRC409E		-	0.26	-		
	Storage Time	KRC407E		$t_{stg}$	-	2.0		-
		KRC408E			-	2.4		-
		KRC409E			-	1.5		-
	Fall Time	KRC407E		$t_f$	-	0.36		-
		KRC408E			-	0.4		-
		KRC409E			-	0.41		-
Input Resistor	KRC407E	R1	-	7	10	13	k	
	KRC408E			15.4	22	28.6		
	KRC409E			32.9	47	61.1		
Resistor Ratio	KRC407E	R2/R1	-	3.7	4.7	5.7		
	KRC408E			1.7	2.1	26		
	KRC409E			0.37	0.47	0.57		

Note : \* Characteristic of Transistor Only.

# KRC407E~KRC409E



# KRC407E~KRC409E

