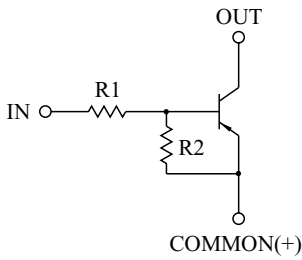


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION

FEATURES

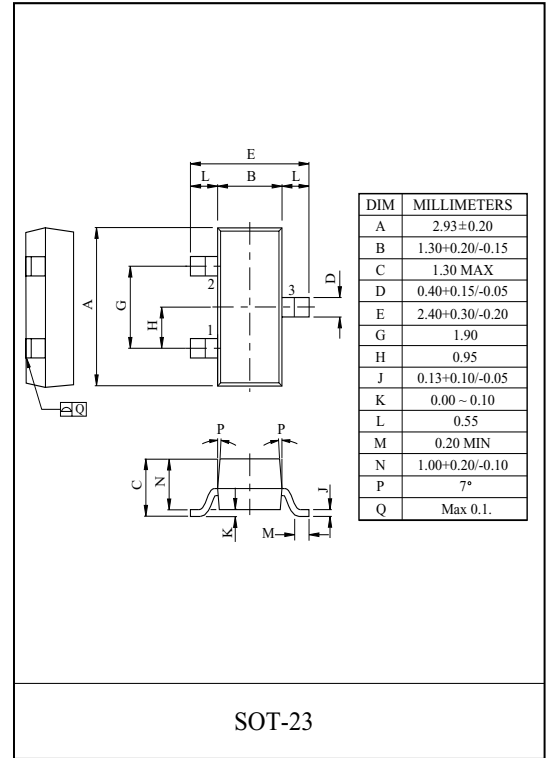
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

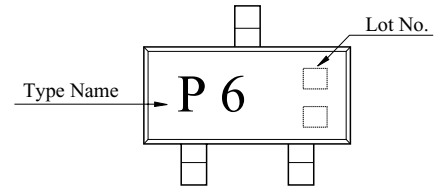
TYPE NO.	R1(k)	R2(k)
KRA119S	4.7	10



MAXIMUM RATING (Ta=25)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Output Voltage	V_O	-50	V
Input Voltage	V_I	-25, 7	V
Output Current	I_O	-150	mA
Power Dissipation	P_D	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Marking



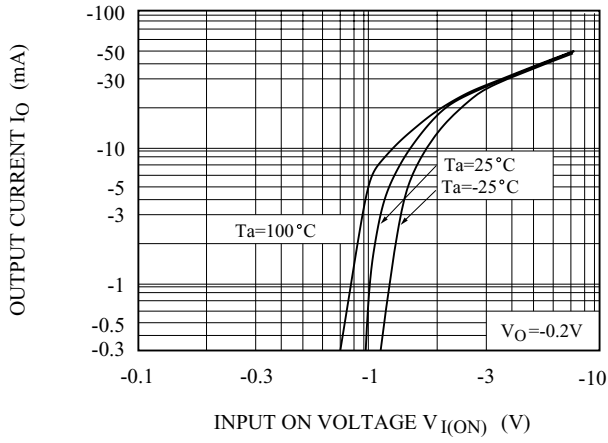
ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	$I_{O(OFF)}$	$V_O=-50V, V_I=0$	-	-	-500	nA
DC Current Gain	G_I	$V_O=-5V, I_O=-10mA$	30	-	-	
Output Voltage	$V_{O(ON)}$	$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	$V_{I(ON)}$	$V_O=-0.3V, I_O=-20mA$	-	-1.76	-2.5	V
Input Voltage (OFF)	$V_{I(OFF)}$	$V_{CC}=-5V, I_O=-100 \mu A$	-0.3	-0.82	-	V
Transition Frequency	f_T^*	$V_O=-10V, I_O=-5mA$	-	250	-	MHz
Input Current	I_I	$V_I=-5V$	-	-	-1.8	mA
Input Resistor	R1	-	3.29	4.7	6.11	k
Resistor Ratio	R2/R1	-	1.7	2.1	2.6	

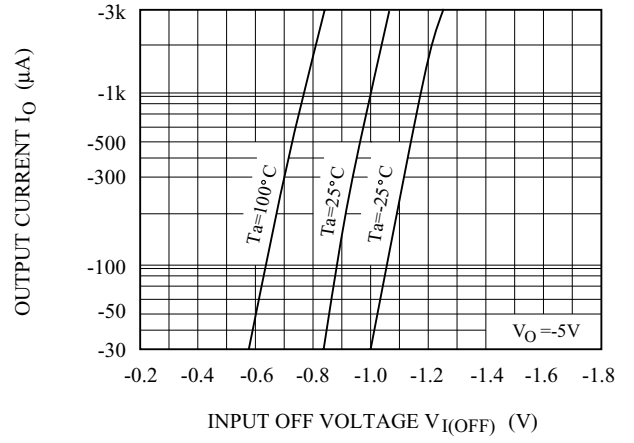
Note : * Characteristic of Transistor Only.

KRA119S

$I_O - V_{I(ON)}$



$I_O - V_{I(OFF)}$



$G_I - I_O$

