

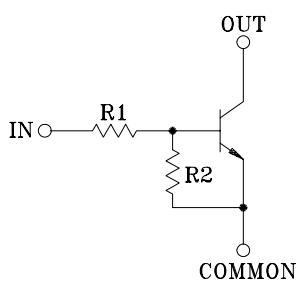
SWITCHING APPLICATION.

INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION

FEATURES

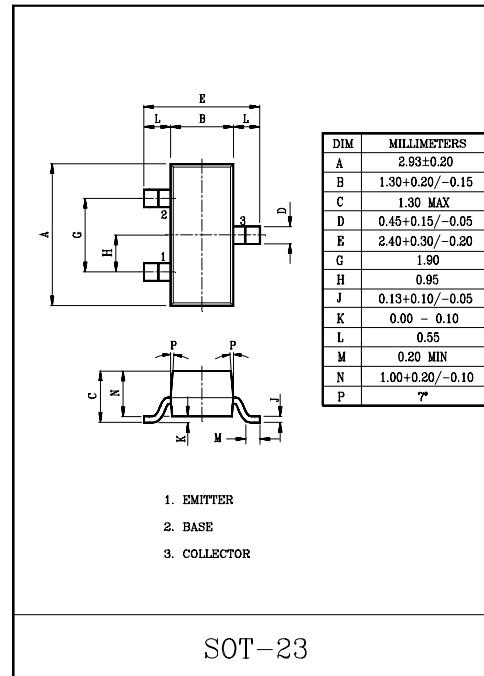
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(kΩ)	R2(kΩ)
KRC116S	1	10
KRC117S	2.2	2.2
KRC118S	2.2	10
KRC119S	4.7	10
KRC120S	10	4.7
KRC121S	47	10
KRC122S	100	100



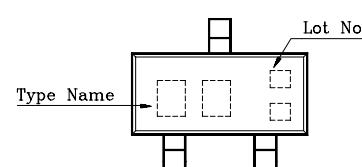
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC116S~122S	V _O	50	V
	KRC116S		10, -5	
	KRC117S		12, -10	
	KRC118S		12, -5	
	KRC119S		20, -7	
	KRC120S		30, -10	
	KRC121S		40, -15	
Input Voltage	KRC122S	V _I	40, -10	V
Output Current	KRC116S~122S	I _O	100	mA
Power Dissipation		P _D	200	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C

MARK SPEC

TYPE	KRC116S	KRC117S	KRC118S	KRC119S	KRC120S	KRC121S	KRC122S
MARK	N2	N4	N5	N6	N7	N8	N9

Marking



KRC116S ~ KRC122S

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC116S ~ 122S	I _{O(OFF)}	V _O =5V, V _I =0	-	-	500	nA
	KRC116S	G _I	V _O =5V, I _O =5mA	33	-	-	V
	KRC117S		V _O =5V, I _O =20mA	20	-	-	
	KRC118S		V _O =5V, I _O =10mA	33	-	-	
	KRC119S		V _O =5V, I _O =10mA	30	-	-	
	KRC120S		V _O =5V, I _O =10mA	24	-	-	
	KRC121S		V _O =5V, I _O =5mA	33	-	-	
	KRC122S		V _O =5V, I _O =5mA	62	-	-	
DC Current Gain	KRC116S	V _{O(ON)}	I _O =10mA, I _I =0.5mA	-	-	0.3	V
	KRC117S		I _O =10mA, I _I =0.5mA	-	0.1	0.3	
	KRC118S		I _O =10mA, I _I =0.5mA	-	-	0.3	
	KRC119S		I _O =10mA, I _I =0.5mA	-	0.1	0.3	
	KRC120S		I _O =10mA, I _I =0.5mA	-	0.1	0.3	
	KRC121S		I _O =10mA, I _I =0.5mA	-	0.1	0.3	
	KRC122S		I _O =5mA, I _I =0.25mA	-	0.1	0.3	
Output Voltage	KRC116S	V _{I(ON)}	V _O =0.3V, I _O =-20mA	-	0.98	3	V
	KRC117S		V _O =0.3V, I _O =-20mA	-	1.83	3	
	KRC118S		V _O =0.3V, I _O =-20mA	-	1.22	3	
	KRC119S		V _O =0.3V, I _O =-20mA	-	1.76	2.5	
	KRC120S		V _O =0.3V, I _O =-2mA	-	2	3	
	KRC121S		V _O =0.3V, I _O =-2mA	-	3.9	5	
	KRC122S		V _O =0.3V, I _O =-1mA	-	1.64	3	
Input Voltage (OFF)	KRC116S	V _{I(OFF)}	V _{CC} =5V, I _O =100µA	0.3	0.63	-	V
	KRC117S			0.5	1.15	-	
	KRC118S			0.3	0.67	-	
	KRC119S			0.3	0.82	-	
	KRC120S			0.8	1.68	-	
	KRC121S			1	3.09	-	
	KRC122S			0.5	1.17	-	
Transition Frequency	KRC116S ~ 122S	f _{T*}	V _O =10V, I _O =5mA	-	250	-	MHz
Input Current	KRC116S	I _I	V _I =-5V	-	-	7.2	mA
	KRC117S			-	-	3.8	
	KRC118S			-	-	3.8	
	KRC119S			-	-	1.8	
	KRC120S			-	-	0.88	
	KRC121S			-	-	0.16	
	KRC122S			-	-	0.15	

Note : *Characteristic of Transistor Only