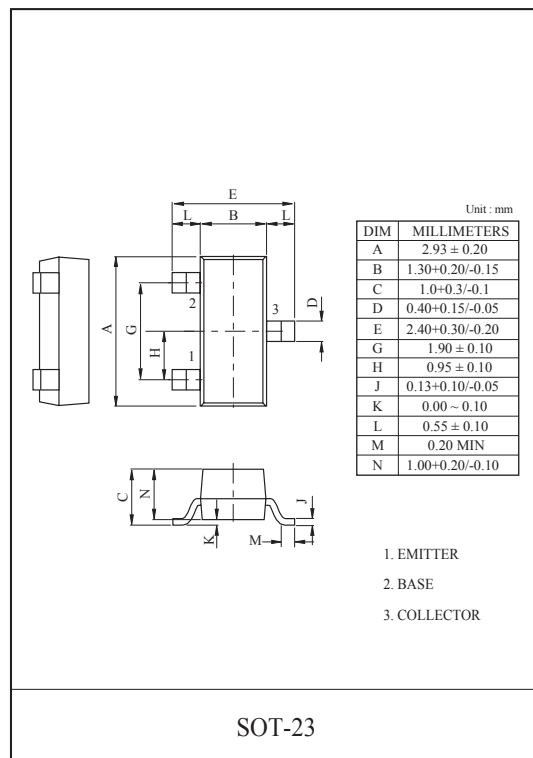
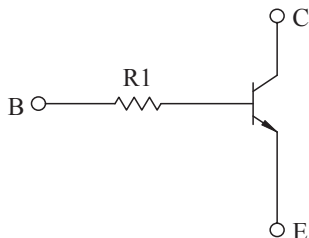


SWITCHING APPLICATION.
AUDIO MUTING APPLICATION.

FEATURES

- High emitter-base voltage : $V_{EBO}=25V(\text{Min})$
- High reverse h_{FE} : reverse $h_{FE}=150(\text{Typ.})$ ($V_{CE}=-2V$, $I_C=-4mA$)
- Low on resistance : $R_{on}=1\Omega$ (Typ.) ($I_B=5mA$)
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- Suffix U : Qualified to AEC-Q101.
ex) KRC281S-B-RTK/PU

EQUIVALENT CIRCUIT

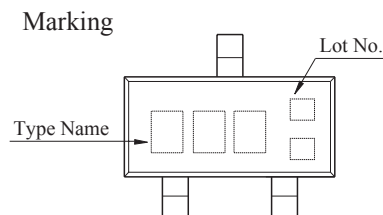


MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	20	V
Emitter-Base Voltage	V_{EBO}	25	V
Collector Current	I_C	300	mA
Collector Power Dissipation	P_C	150	mW
Junction Temperature	T_j	-55 ~ 150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

MARK SPEC

TYPE	h_{FE} classification
	B
KRC281S	MQB
KRC282S	MRB
KRC283S	MSB
KRC284S	MTB
KRC285S	MUB
KRC286S	MVB



KRC281S~KRC286S

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Emitter Breakdown Voltage		BV_{CEO}	$I_C=1mA$	20	-	-	V
Collector-Base Breakdown Voltage		BV_{CBO}	$I_C=50\mu A$	50	-	-	V
Emitter-Base Breakdown Voltage		BV_{EBO}	$I_E=50\mu A$	25	-	-	V
Collector Cut-off Current		I_{CBO}	$V_{CB}=50V, I_E=0$	-	-	0.1	μA
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=30mA, I_B=3mA$	-	-	0.1	V
DC Current Gain		h_{FE}	$V_{CE}=2V, I_C=4mA$	350	-	1200	
Input Resistor	KRC281S	R_i		1.54	2.2	2.86	k Ω
	KRC282S			3.29	4.7	6.11	
	KRC283S			3.92	5.6	7.28	
	KRC284S			4.76	6.8	8.84	
	KRC285S			7	10	13	
	KRC286S			15.4	22	28.6	
Transition Frequency		f_T^*	$V_{CE}=6V, I_C=4mA,$	-	30	-	MHz
Collector Output Capacitance		C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	4.8	-	pF

* Characteristic of Transistor Only.

Note) h_{FE} Classification B:350 ~ 1200