

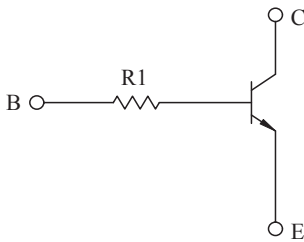
SWITCHING APPLICATION.  
AUDIO MUTING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER  
CIRCUIT APPLICATION.

#### FEATURES

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

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#### EQUIVALENT CIRCUIT



DIM	MILLIMETERS
A	2.93±0.20
B	1.30+0.20/-0.15
C	1.30 MAX
D	0.45+0.15/-0.05
E	2.40+0.30/-0.20
G	1.90
H	0.95
J	0.13+0.10/-0.05
K	0.00 ~ 0.10
L	0.55
M	0.20 MIN
N	1.00+0.20/-0.10
P	7°

SOT-23

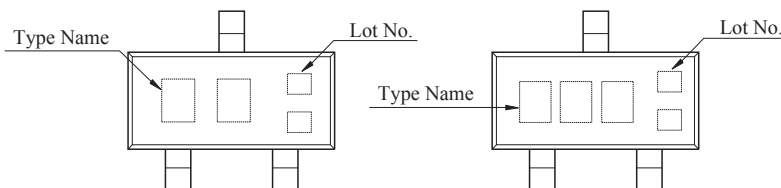
#### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	30	V
Collector-Emitter Voltage	$V_{CEO}$	15	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	600	mA
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C

#### MARK SPEC

TYPE	KRC231S	KRC232S	KRC233S	KRC234S	KRC235S
MARK	NW	NY	NZ	NNA	NNB

#### Marking



# KRC231S~KRC235S

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=1mA$	15	-	-	V	
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C=50\mu A$	30	-	-	V	
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=50\mu A$	5.0	-	-	V	
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=30V$	-	-	0.5	$\mu A$	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=50mA, I_B=2.5mA$	-	40	80	mV	
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=50mA$	200	350	800	-	
Input Resistor	KRC231S	$R_1$		-	2.2	-	k $\Omega$
	KRC232S			-	5.6	-	
	KRC233S			-	10	-	
	KRC234S			-	4.7	-	
	KRC235S			-	6.8	-	
Transition Frequency	$f_T^*$	$V_{CE}=10V, I_E=-50mA,$ $f=100MHz$	-	200	-	MHz	
On Resistance	$R_{on}$	$f=1kHz, I_B=1mA, V_{IN}=0.3V$	-	0.6	-	$\Omega$	

Note : \* Characteristic of Transistor Only.

# KRC231S~KRC235S

