

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

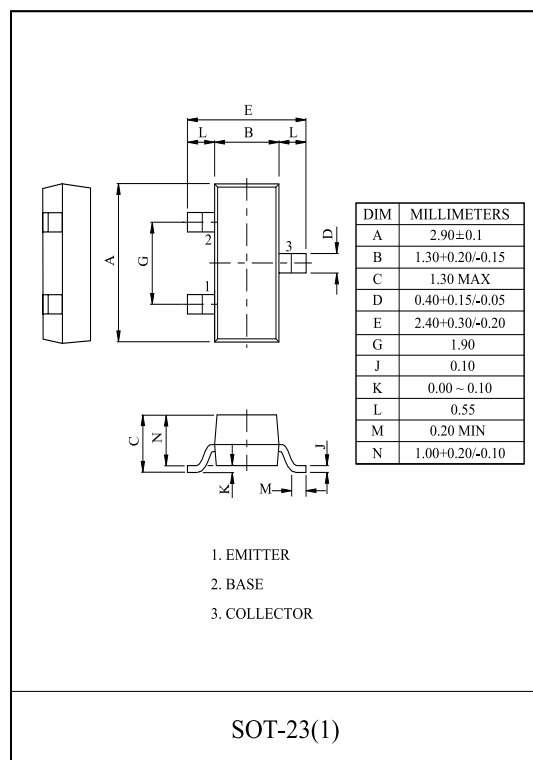
FEATURES

- Excellent h_{FE} Linearity
: $h_{FE}(I_C=-0.1mA)/h_{FE}(I_C=-2mA)=0.95(Typ.)$.
- Complementary to KTC9014SC.

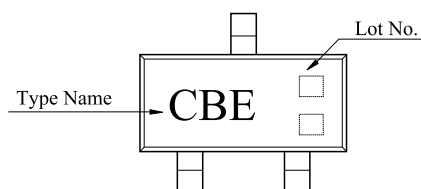
MAXIMUM RATING ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-70	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-100	mA
Collector Power Dissipation	P_C^*	350	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 ~ 150	

* P_C : Package Mounted On 99.5% Alumina ($10 \times 8 \times 0.6mm$)



Marking

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=-0.05mA, I_E=0$	-70	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-50	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-0.05mA, I_C=0$	-8	-	-	V
Collector Cut-off Current	I_{CBO}	$V_{CB}=-50V, I_E=0$	-	-	-0.1	uA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-0.1	uA
DC Current Gain	h_{FE}	$V_{CE}=-5V, I_C=1mA$	200	-	300	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100mA, I_B=-5mA$	-	-	-0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-100mA, I_B=-5mA$	-	-	-1	V
Transition Frequency	f_T	$V_{CE}=-5V, I_C=-10mA, f=30MHz$	150	-	-	MHz

KTC9015SC

