

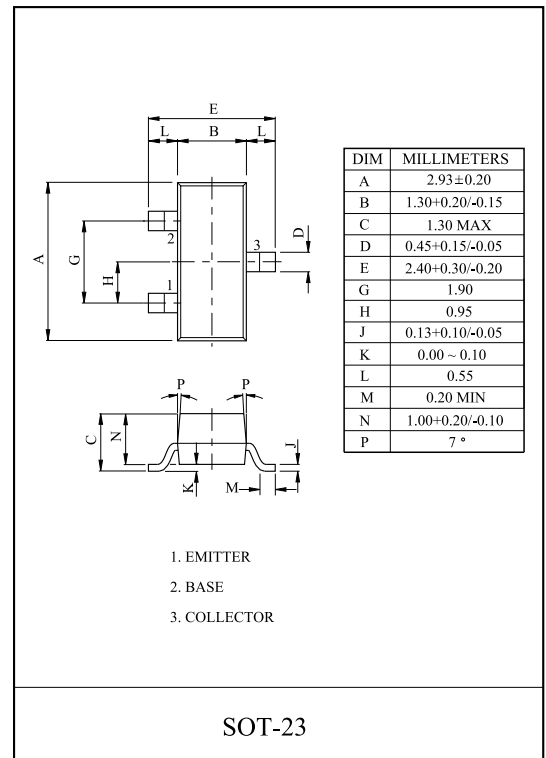
LOW NOISE AMPLIFIER APPLICATION.

FEATURE

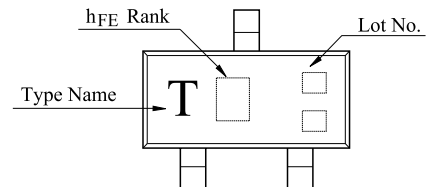
- High h_{FE} : $h_{FE}=600 \sim 3600$.
- Noise Figure : 0.5dB(Typ.) at $f=100\text{Hz}$.

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	150	mA
Base Current	I_B	30	mA
Collector Power Dissipation	P_C	150	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 ~ 150	



Marking



ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=50V, I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	0.1	μA
DC Current Gain	h_{FE} (Note)	$V_{CE}=6V, I_C=2mA$	600	-	3600	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=10mA$	-	0.12	0.25	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=10mA$	100	250	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	3.5	-	pF
Noise Figure	NF (1)	$V_{CE}=6V, I_C=0.1mA,$ $f=100Hz, R_g=10k$	-	0.5	-	dB
	NF (2)	$V_{CE}=6V, I_C=0.1mA,$ $f=1kHz, R_g=10k$	-	0.3	-	

Note : h_{FE} Classification A:600 1800 , B:1200 3600

