

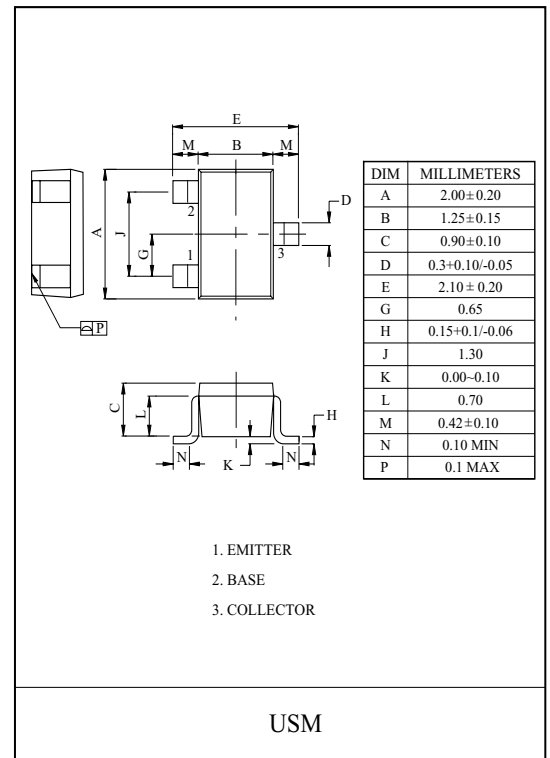
LOW NOISE AMPLIFIER APPLICATION.

### FEATURES

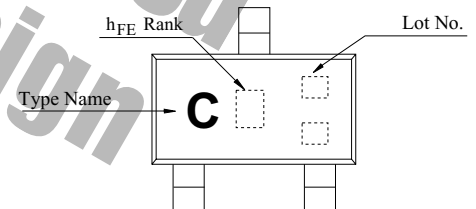
- High Voltage :  $V_{CE0}=-120V$ .
- Excellent  $h_{FE}$  Linearity  
:  $h_{FE}(0.1mA)/h_{FE}(2mA)=0.95(Typ.)$ .
- High  $h_{FE}$ :  $h_{FE}=200 \sim 700$ .
- Low Noise :  $NF=1dB(Typ.)$ ,  $10dB(Max.)$ .
- Complementary to KTC4077.

### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	-120	V
Collector-Emitter Voltage	$V_{CEO}$	-120	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-100	mA
Base Current	$I_B$	-20	mA
Collector Power Dissipation	$P_C$	100	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 ~ 150	



### Marking

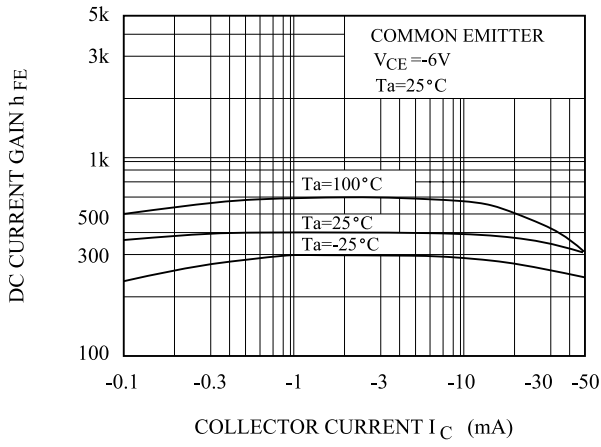


### ELECTRICAL CHARACTERISTICS (Ta=25 )

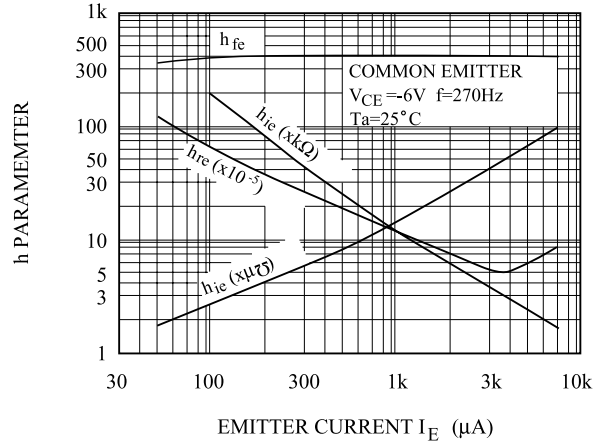
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=-120V, I_E=0$	-	-	-0.1	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-5V, I_C=0$	-	-	-0.1	$\mu A$
DC Current Gain	$h_{FE}$ (Note)	$V_{CE}=-6V, I_C=-2mA$	200	-	700	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-10mA, I_B=-1mA$	-	-	-0.3	V
Transition Frequency	$f_T$	$V_{CE}=-6V, I_C=-1mA$	-	100	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1MHz$	-	4.0	-	pF
Noise Figure	NF	$V_{CE}=-6V, I_C=-0.1mA$ $f=1kHz, R_g=10k$	-	1.0	10	dB

Note :  $h_{FE}$  Classification GR(6):200 400 BL(8):350 700

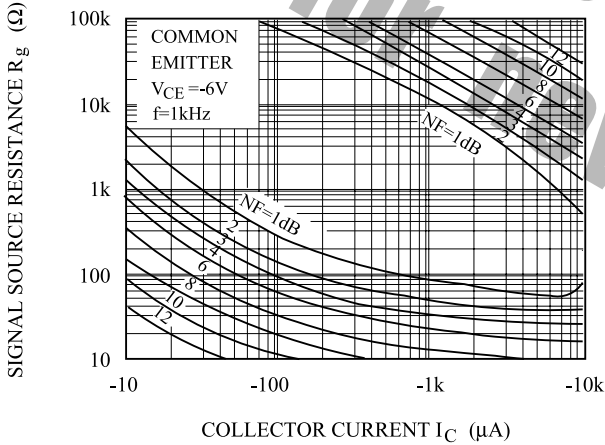
$h_{FE} - I_C$



h PARAMETER -  $I_E$



NF -  $R_g, I_C$



$C_{ob} - V_{CB}$

