

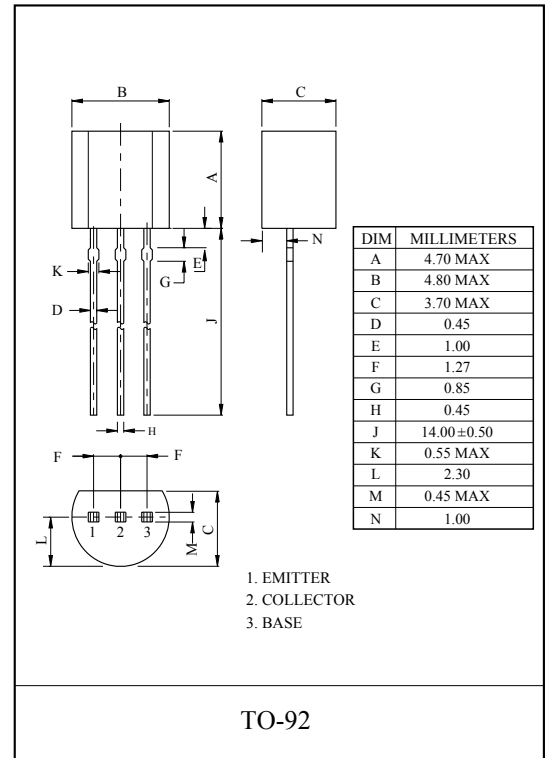
### DIFFERENTIAL AMP. APPLICATION.

### FEATURES

- Matched Pairs for Differential Amplifiers.
- High Breakdown Voltage :  $V_{CE0}=120V(\text{Min.})$ .
- Low Noise :  $NF=1dB(\text{Typ.}), 10dB(\text{Max.})$ .
- Complementary to KTA2400.

### MAXIMUM RATING ( $T_a=25^\circ\text{C}$ )

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
Emitter Current	$I_E$	-100	mA
Collector Power Dissipation	$P_C$	625	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ 150	$^\circ\text{C}$



### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=120V, I_E=0$	-	-	0.1	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	0.1	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	120	-	-	V
DC Current Gain	$h_{FE}$ (Note)	$V_{CE}=6V, I_C=2mA$	200	-	400	
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	$V_{CE}=6V, I_C=0.1mA, f=1kHz, R_g=10k\Omega$	-	1.0	10	dB

Note :  $h_{FE}$  Classification G□:200~400, In case of G□, □:A to G, GR:200~400

$h_{FE}$ Classification	$h_{FE}$	$h_{FE}$ Classification	$h_{FE}$
GA	200 ~ 220	GE	310 ~ 340
GB	220 ~ 250	GF	340 ~ 370
GC	250 ~ 280	GG	370 ~ 400
GD	280 ~ 310		

# KTC3400

