

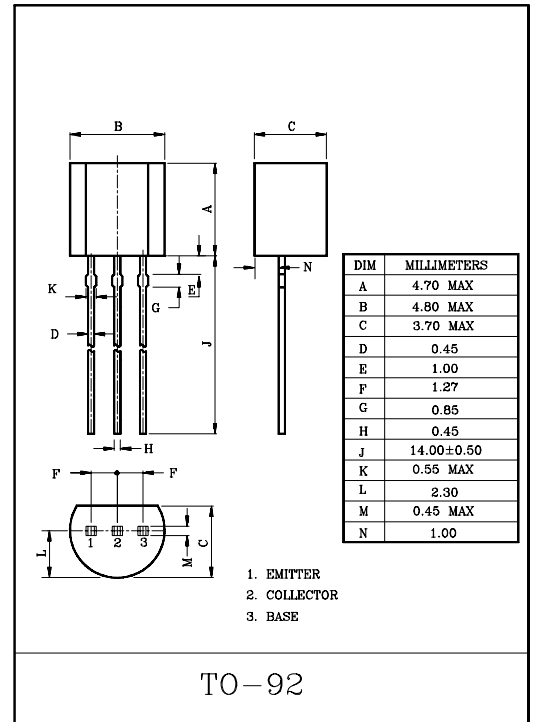
LOW NOISE AMPLIFIER APPLICATION.

FEATURES

- Excellent Linearity of h_{FE}
 $h_{FE(2)}=100(\text{Typ.})$ at $V_{CE}=6V$, $I_C=150mA$
 $h_{FE(I_C=0.1mA)}/h_{FE(I_C=2mA)}=0.95(\text{Typ.})$.
- Low Noise : $NF=0.2dB(\text{Typ.})$ at $(f=1kHz)$.
- Complementary to KTA1266L (O,Y,GR class).

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

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



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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=60V$, $I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V$, $I_C=0$	-	-	0.1	μA
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=6V$, $I_C=2mA$	70	-	700	
	$h_{FE(2)}$	$V_{CE}=6V$, $I_C=150mA$	25	100	-	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	$I_C=100mA$, $I_B=10mA$	-	0.1	V
	Base-Emitter	$V_{BE(sat)}$	$I_C=100mA$, $I_B=10mA$	-	1.0	
Transition Frequency	f_T	$V_{CE}=10V$, $I_C=10mA$	80	-	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$, $I_E=0$, $f=1MHz$	-	2.0	3.0	pF
Base Intrinsic Resistance	$r_{bb'}$	$V_{CB}=10V$, $I_E=-1mA$, $f=30MHz$	-	50	-	Ω
Noise Figure	NF(1)	$V_{CE}=6V$, $I_C=0.1mA$, $R_g=10k\Omega$, $f=100Hz$	-	0.5	6.0	dB
	NF(2)	$V_{CE}=6V$, $I_C=0.1mA$, $R_g=10k\Omega$, $f=1kHz$	-	0.2	3.0	

Note) $h_{FE(1)}$ Classification O : 70~140, Y : 120~240, GR : 200~400, BL : 300~700

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.