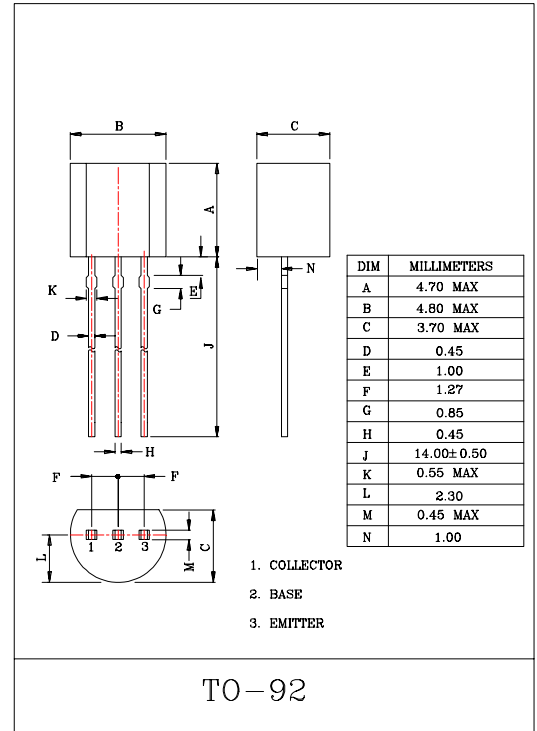


LOW NOISE AMPLIFIER APPLICATION.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	BC549	V _{CB0}	30	V
	BC550		50	
Collector-Emitter Voltage	BC549	V _{CEO}	30	V
	BC550		45	
Emitter-Base Voltage		V _{EBO}	5	V
Collector Current		I _C	100	mA
Collector Power Dissipation		P _C	625	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Emitter Breakdown Voltage	BC549	V _{(BR)CEO}	I _C =10mA, I _B =0	30	-	-	V
	BC550			45	-	-	
Collector-Base Breakdown Voltage	BC549	V _{(BR)CBO}	I _C =10μA, I _E =0	30	-	-	V
	BC550			50	-	-	
Emitter-Base Breakdown Voltage		V _{(BR)EBO}	I _E =10μA, I _C =0	5.0	-	-	V
Collector Cut-off Current		I _{CBO}	V _{CB} =30V, I _E =0	-	-	15	nA
DC Current Gain		h _{FE} (Note)	I _C =2mA, V _{CE} =5V	110	-	800	
Base-Emitter Voltage		V _{BE(ON)}	I _C =2mA, V _{CE} =5V	0.55	-	0.7	V
Collector-Emitter Saturation Voltage		V _{CE(sat)}	I _C =100mA, I _B =5mA	-	-	0.6	V
Base-Emitter Saturation Voltage		V _{BE(sat)}	I _C =100mA, I _B =5mA	-	0.9	-	V
Transition Frequency		f _T	I _E =10mA, V _{CE} =5V, f=100MHz	-	300	-	MHz
Collector Output Capacitance		C _{ob}	V _{CB} =10V, I _E =0, f=1MHz	-	-	4.5	pF
Noise Figure	BC549	NF	I _C =200μA, V _{CE} =5V R _g =10kΩ, f=1kHz	-	-	4.0	dB
	BC550			-	-	10	

Note : h_{FE} Classification A:110~220, B:200~450, C:420~800