

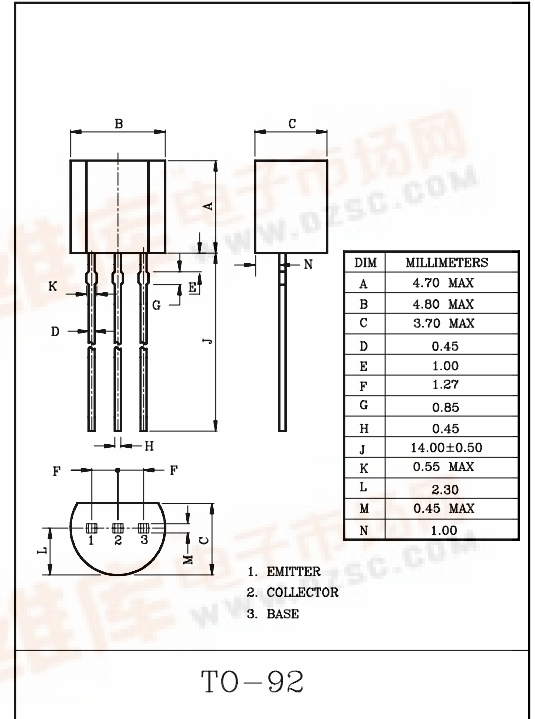
LOW NOISE AMPLIFIER APPLICATION.
HIGH VOLTAGE APPLICATION.

FEATURES

- Low Noise.
 - : NF=3dB(Typ.), Rg=100Ω, V_{CE}=-6V, I_C=-100μA, f=1kHz
 - : NF=0.5dB(Typ.), Rg=1kΩ, V_{CE}=-6V, I_C=-100μA, f=1kHz.
- High DC Current Gain : h_{FE}=200~700.
- High Voltage : V_{CEO}=-120V.
- Low Pulse Noise. Low 1/f Noise.

MAXIMUM RATINGS (T_a=25°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	°C
Storage Temperature Range	T _{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (T_a=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =-120V, I _E =0	-	-	-100	nA
Emitter Cut-off Current	I _{EBO}	V _{EB} =-5V, I _C =0	-	-	-100	nA
Collector-Emitter Breakdown Voltage	V _{CEO}	I _C =-1mA, I _B =0	-120	-	-	V
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
Base-Emitter Voltage	V _{BE}	V _{CE} =-6V, I _C =-2mA	-	-0.65	-	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 =-100μA f=10Hz, Rg=10kΩ	-	-	6.0	dB
		V _{CE} =-6V, I _C =-100μA, f=1kHz, Rg=10kΩ	-	-	2.0	
		V _{CE} =-6V, I _C =-100μA f=1kHz, Rg=100Ω	-	3.0	-	



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