

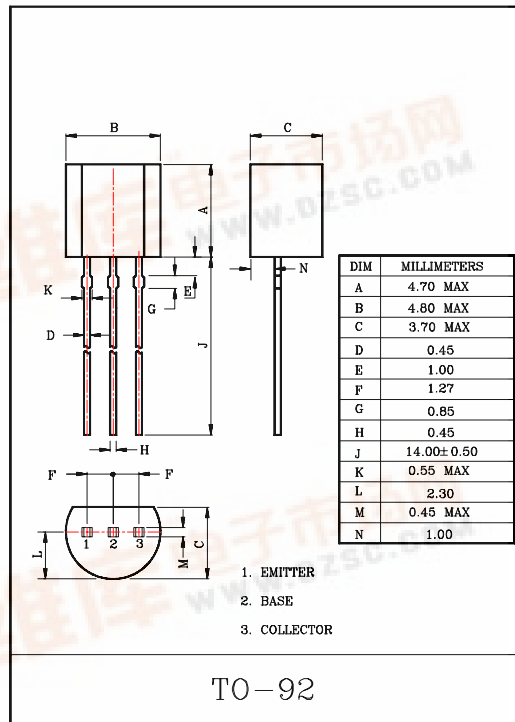
HIGH FREQUENCY LOW NOISE AMPLIFIER APPLICATION.  
VHF BAND AMPLIFIER APPLICATION.

**FEATURES**

- Small Reverse Transfer Capacitance  
:  $C_{re}=0.65pF(Typ.)$ .
- Low Noise Figure :  $NF=2.2dB(Typ.)$  at  $f=100MHz$ .
- High Transition Frequency :  $f_T=800MHz(Typ.)$ .

**MAXIMUM RATINGS (Ta=25°C)**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	40	V
Collector-Emitter Voltage	$V_{CEO}$	30	V
Emitter-Base Voltage	$V_{EBO}$	4	V
Collector Current	$I_C$	20	mA
Emitter Current	$I_E$	-20	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 Cut-off Current	$I_{CBO}$	$V_{CB}=40V, I_E=0$	-	-	0.1	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=4V, I_C=0$	-	-	0.1	$\mu A$
DC Current Gain	$h_{FE}$ (Note)	$V_{CE}=5V, I_C=1mA$	40	-	198	
Reverse Transfer Capacitance	$C_{re}$	$V_{CE}=6V, f=1MHz$	-	-	1.0	pF
Transition Frequency	$f_T$	$V_{CE}=10V, I_E=-8mA, f=100MHz$	500	800	-	MHz
Collector-Base Time Constant	$C_C \cdot r_{bb}'$	$V_{CE}=6V, I_E=-1mA, f=30MHz$	-	-	30	pS
Noise Figure	NF	$V_{CE}=6V, I_E=-1mA, f=100MHz$	-	-	4.0	dB
Power Gain	$G_{pc}$		15	-	-	

Note :  $h_{FE}$  Classification E:40~59, F:54~80, G:72~108, H:97~146, I:130~198

