

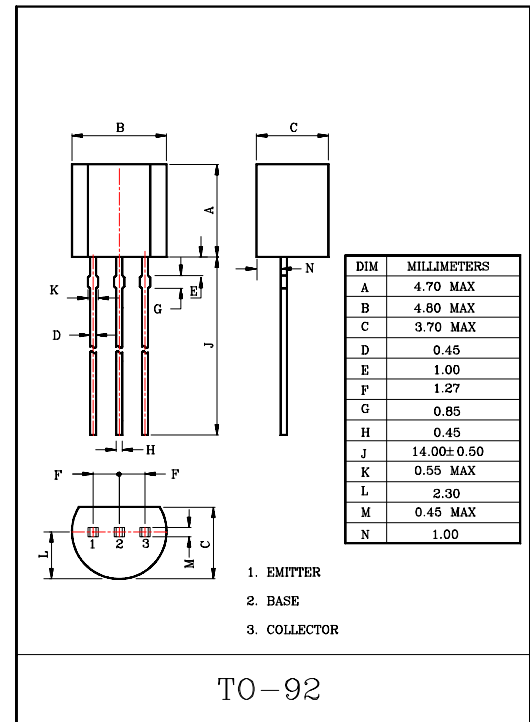
HIGH FREQUENCY APPLICATION.  
HF, VHF BAND AMPLIFIER APPLICATION.

### FEATURE

- High Power Gain :  $G_{pe}=29dB(Typ.)$  at  $f=10.7MHz$ .

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	35	V
Collector-Emitter Voltage	$V_{CEO}$	30	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	50	mA
Emitter Current	$I_E$	-50	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	$I_{CBO}$	$V_{CB}=35V, I_E=0$	-	-	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	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$	-	-	0.4	V
Transition Frequency	$f_T$	$V_{CB}=10V, I_C=1mA, f=100MHz$	100	-	400	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	2.0	-	pF

Note :  $h_{FE}$  Classification E:40~59, F:54~80, G:72~108, H:97~146, I:132~198