



COMMUNICATIONS TRANSISTOR CORPORATION

avalanche
CD4262

150 Watts * 28 Volts



661007

1980

GENERAL DESCRIPTION

The CD4262 is a low VHF wideband 150 watt, balanced device which is ideal for Class AB, and B operation in FM communication applications.

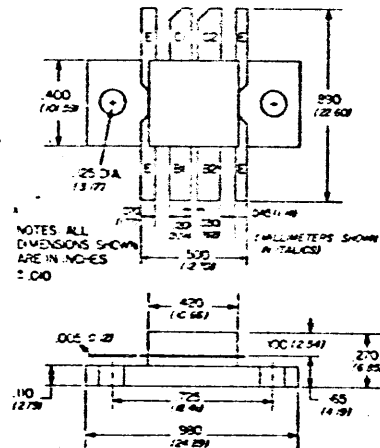
Maximum Power Dissipation

Total Power Dissipation at 25°C
Case Temperature
θjc

$$\frac{270W}{0.65^{\circ}C/W}$$

Maximum Voltage and Current

V _{CE}	Collector to Emitter Voltage	70V
V _{EB}	Emitter to Base Voltage	4V
I _C	Collector Current	25A



ELECTRICAL CHARACTERISTICS (25°C unless otherwise specified)

Symbol	Characteristics	Min.	Typ.	Max.	Units	Test Conditions
P _{in}	Power Input CW			18.0	Watts	P _{out} =150W CW; f=108MHz V _{cc} =28V
η _c	Collector Efficiency		65		%	Pin conditions
V _{SWR}	Output VSWR capability	10:1			---	Pin conditions
C _{ob}	Collector-Base Capacitance		270		pF	V _{cb} =28V; f=1MHz
V _{EB}	Emitter-Base Breakdown	4.0			Volts	I _e =25mA
H _{FE}	DC Current Gain	10			---	V _{ce} =5V, I _c =5A
I _{CBO}	Collector-Base Cutoff			50	mA	V _{cb} =28V
V _{CB}	Collector Base Breakdown	60			Volts	I _{cb} =200mA
V _{CEO}	Collector-Emitter Breakdown	32			Volts	I _{ce} =200mA

