

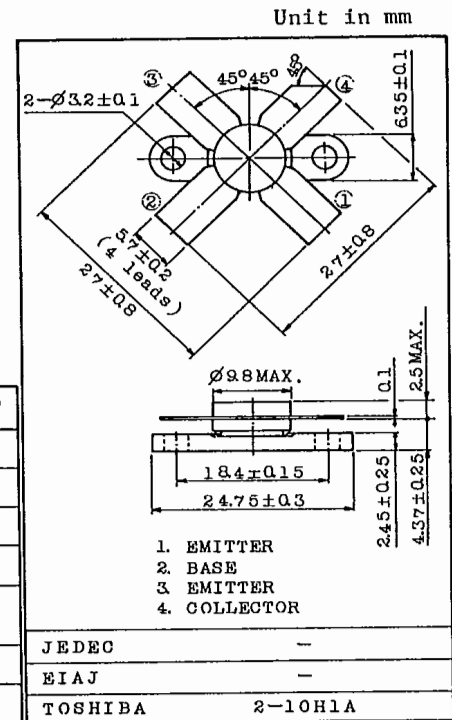
VHF BAND POWER AMPLIFIER APPLICATIONS.

**FEATURES :**

- Output Power :  $P_o=27W$  (Min.)  
(  $f=175MHz$ ,  $V_{CC}=12.5V$ ,  $P_i=4.2W$  )

**MAXIMUM RATINGS (Ta=25°C)**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	40	V
Collector-Emitter Voltage	$V_{CEO}$	18	V
Emitter-Base Voltage	$V_{EBO}$	4	V
Collector Current	$I_C$	6	A
Collector Power Dissipation (Tc=25°C)	$P_C$	50	W
Junction Temperature	$T_j$	175	°C
Storage Temperature Range	$T_{stg}$	-65 ~ 175	°C



Weight : 4.0g

**ELECTRICAL CHARACTERISTICS (Ta=25°C)**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=15V$ , $I_E=0$	-	-	1	mA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10mA$ , $I_E=0$	40	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=25mA$ , $I_B=0$	18	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1mA$ , $I_C=0$	4	-	-	V
DC Current Gain	$h_{FE}$	$V_{CE}=5V$ , $I_C=3A$	10	-	150	
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V$ , $I_E=0$ , $f=1MHz$	-	-	80	pF
Output Power	$P_o$	(Fig.)	27	29	-	W
Power Gain	$G_{pe}$	$V_{CC}=12.5V$ , $f=175MHz$ , $P_i=4.2W$	8.0	8.4	-	dB
Collector Efficiency	$\eta_c$		60	70	-	%

Note : Above parameters , ratings , limits and conditions are subject to change.