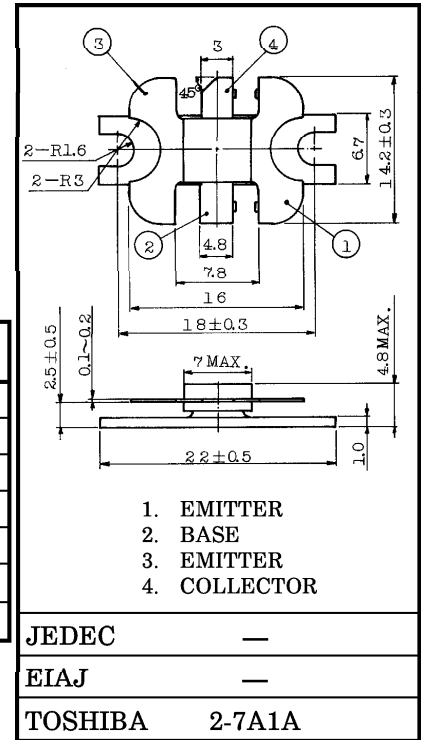


- Output Power :  $P_o = 12\text{W}$  (Min.)  
( $f = 470\text{MHz}$ ,  $V_{CC} = 12.6\text{V}$ ,  $P_i = 3\text{W}$ )

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	35	V
Collector-Emitter Voltage	$V_{CEO}$	17	V
Emitter-Base Voltage	$V_{EBO}$	3.5	V
Collector Current	$I_C$	2.8	A
Collector Power Dissipation	$P_C$	30	W
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-65~175	$^\circ\text{C}$



### ELECTRICAL CHARACTERISTICS ( $T_c = 25^\circ\text{C}$ )

Weight : 1.6g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = 15\text{V}$ , $I_E = 0$	—	—	1.5	mA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 2\text{mA}$ , $I_E = 0$	35	—	—	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 10\text{mA}$ , $I_B = 0$	17	—	—	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 0.2\text{mA}$ , $I_C = 0$	3.5	—	—	V
DC Current Gain	$h_{FE}$	$V_{CE} = 5\text{V}$ , $I_C = 1.5\text{A}$ *	10	—	—	
Collector Output Capacitance	$C_{ob}$	$V_{CB} = 10\text{V}$ , $I_E = 0$ $f = 1\text{MHz}$	—	28	40	pF
Output Power	$P_o$	(Fig.)	12	—	—	W
Power Gain	$G_p$	$V_{CC} = 12.6\text{V}$ , $f = 470\text{MHz}$	6	—	—	dB
Collector Efficiency	$\eta_C$	$P_i = 3\text{W}$	60	—	—	%
Series Equivalent Input Impedance	$Z_{in}$	$V_{CC} = 12.6\text{V}$ , $f = 470\text{MHz}$	—	1.2 +j4	—	$\Omega$
Series Equivalent Output Impedance	$Z_{out}$	$P_o = 12\text{W}$	—	4 +j0.5	—	$\Omega$

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