

Unit in mm

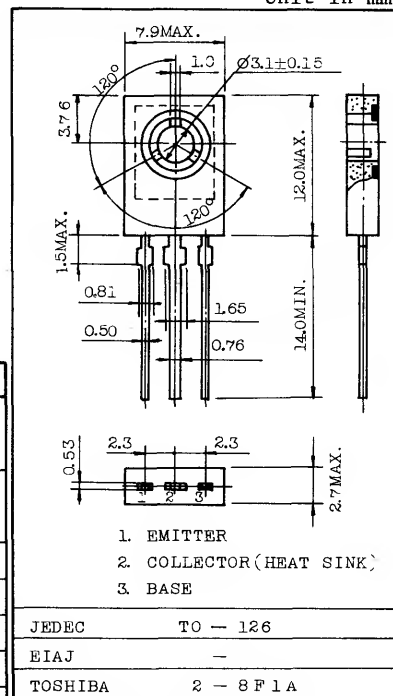
MEDIUM POWER AMPLIFIER APPLICATIONS.

FEATURES:

- Low Collector Saturation Voltage
: $V_{CE(sat)} = -0.32V$ (Typ.)
- Complementary to 2SC495 and 2SC496.

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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	2SA505	V_{CBO}	-60	V
	2SA496		-40	
Collector-Emitter Voltage	2SA505	V_{CEO}	-50	V
	2SA496		-30	
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current		I_C	-1	A
Emitter Current		I_E	1	A
Collector Power Dissipation		P_C	1	W
Junction Temperature		T_j	150	$^\circ C$
Storage Temperature Range		T_{stg}	-55 ~ 150	$^\circ C$



Mounting Kit No. AC46C
Weight : 0.72g

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} =-30V, I _E =0	-	-	-1	μA
Emitter Cut-off Current		I _{EBO}	V _{EB} =-5V, I _C =0	-	-	-1	μA
Collector-Emitter Breakdown Voltage	2SA505	V _(BR) CEO	I _C =-10mA, I _B =0	-50	-	-	V
	2SA496			-30	-	-	
Emitter-Base Breakdown Voltage		V _(BR) EBO	I _E =1mA, I _C =0	-5	-	-	V
DC Current Gain	(Note) h _{FE} (1)		V _{CE} =-2V, I _C =-50mA	40	-	240	
	h _{FE} (2)		V _{CE} =-2V, I _C =-800mA	13	-	-	
Collector-Emitter Saturation Voltage		V _{CE} (sat)	I _C =-500mA, I _B =-50mA	-	-0.32	-0.8	V
Base-Emitter Voltage		V _{BE}	V _{CE} =-2V, I _C =-500mA	-	-	-1.3	V
Transition Frequency		f _T	V _{CE} =-10V, I _C =-10mA	50	100	-	MHz
Collector Output Capacitance		C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	-	20	-	pF

Note: $h_{FE(1)}$ Classification R : 40 ~ 80 O : 70 ~ 140 Y : 120 ~ 240

