

# 2SA1120

SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

STROBO FLASH APPLICATIONS.

AUDIO POWER AMPLIFIER APPLICATIONS.

FEATURES:

- MIN  $h_{FE}$  of 70 at -2V, -4A.
- -5A Rated Collector Current.
- MAX  $V_{CE(sat)}$  of -1.0V at -4A  $I_C$ .
- 10W at 25°C Case Temperature.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		$V_{CBO}$	-35	V
Collector-Emitter Voltage		$V_{CEO}$	-20	V
Emitter-Base Voltage		$V_{EBO}$	-8	V
Collector Current	DC	$I_C$	-5	A
	Pulsed(Note 1)	$I_{CP}$	-8	A
Emitter Current	DC	$I_E$	5	A
	Pulsed(Note 1)	$I_{EP}$	8	A
Collector Power Dissipation	Ta=25°C	$P_C$	1.0	W
	Tc=25°C		10	W
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-55~150	°C

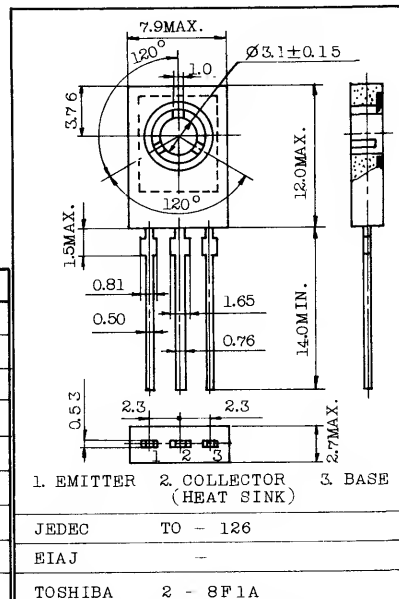
Note 1. Pulse Test : Pulse Width=10ms(Max.),  
Duty Cycle=30%(Max.)

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=-35V, I_E=0$	-	-	-100	nA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-8V, I_C=0$	-	-	-100	nA
Collector-Emitter Breakdown Voltage	$V_{CEO}$	$I_C=-10mA, I_B=0$	-20	-	-	V
Emitter-Base Breakdown Voltage	$V_{EBO}$	$I_E=-1mA, I_C=0$	-8	-	-	V
DC Current Gain	$h_{FE}(1)$ (Note 2)	$V_{CE}=-2V, I_C=-0.5A$	100	-	320	
		$V_{CE}=-2V, I_C=-4A$	70	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-4A, I_B=-0.1A$	-	-	-1.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=-2V, I_C=-4A$	-	-	-1.5	V
Transition Frequency	$f_T$	$V_{CE}=-2V, I_C=-0.5A$	-	170	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1MHz$	-	62	-	pF

Note 2.  $h_{FE}(1)$  Classification 0:100~200, Y:160~320

UNIT in mm



Mounting Kit No. AC46C  
Weight : 0.72g

