

PULSE MOTOR DRIVE, HAMMER DRIVE APPLICATIONS.
SWITCHING APPLICATIONS.
POWER AMPLIFIER APPLICATIONS.

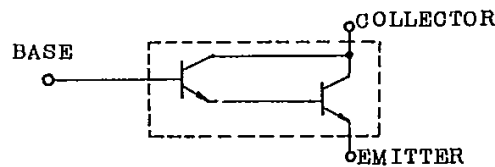
FEATURES:

- High DC Current Gain
: $h_{FE}=4000(\text{Min.})$ ($V_{CE}=2V, I_C=150\text{mA}$)
- Low Saturation Voltage
: $V_{CE(\text{sat})}=1.5V(\text{Max.})$ ($I_C=1A, I_B=1\text{mA}$)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	10	V
Continuous Collector Current	I_C	1.5	A
Collector Power Dissipation ($T_a=25^\circ\text{C}$)	P_C	1.0	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

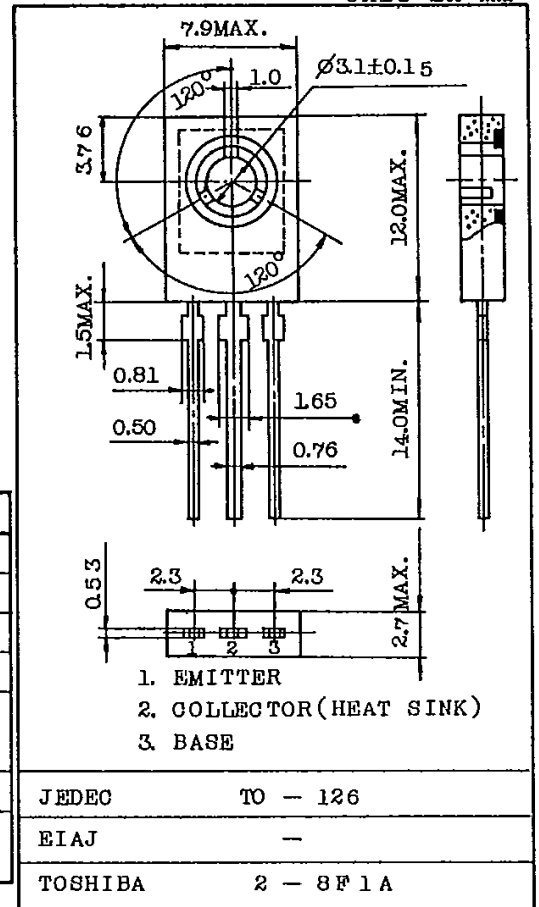
EQUIVALENT CIRCUIT



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

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB}=30V, I_E=0$	-	-	10	μA
Emitter Cut-off Current		I_{EBO}	$V_{EB}=10V, I_C=0$	-	-	10	μA
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	$I_C=10\text{mA}, I_B=0$	30	-	-	V
DC Current Gain		h_{FE}	$V_{CE}=2V, I_C=150\text{mA}$	4000	-	-	
Collector-Emitter Saturation Voltage		$V_{CE(\text{sat})}$	$I_C=1A, I_B=1\text{mA}$	-	-	1.5	V
Base-Emitter Saturation Voltage		$V_{BE(\text{sat})}$	$I_C=1A, I_B=1\text{mA}$	-	-	2.2	V
Switching Time	Turn-on Time	t_{on}		-	0.18	-	μs
	Storage Time	t_{stg}		-	0.6	-	
	Fall Time	t_f		-	0.3	-	

Unit in mm



Mounting Kit No. AC46C
Weight : 0.72g

