

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

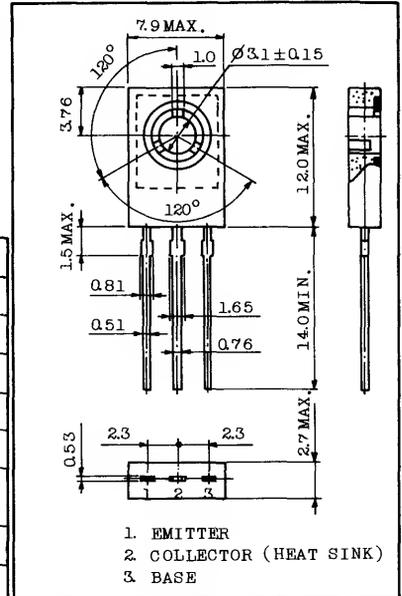
INDUSTRIAL APPLICATIONS
 Unit in mm

FEATURES:

- High DC Current Gain
 : $h_{FE}=2000(\text{Min.})$ ($V_{CE}=-2V, I_C=-1A$)
- Low Saturation Voltage
 : $V_{CE}(\text{sat})=-1.5V(\text{Max.})$ ($I_C=-1A, I_B=-1mA$)

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

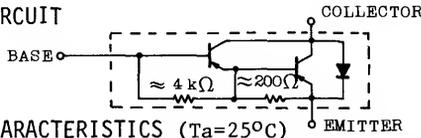
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V_{EBO}	-8	V
Collector Current	I_C	-2	A
Base Current	I_B	-0.5	A
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	15	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$



JEDEC	T0-126
EIAJ	-
TOSHIBA	2-8F1A

Mounting Kit No. AC46C
 Weight : 0.72g

EQUIVALENT CIRCUIT



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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current	I_{CBO}	$V_{CB}=-80V, I_E=0$	-	-	-10	μA	
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-8V, I_C=0$	-	-	-4	mA	
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-10mA, I_B=0$	-80	-	-	V	
DC Current Gain	h_{FE}	$V_{CE}=-2V, I_C=-1A$	2000	-	-		
Collector-Emitter Saturation Voltage	$V_{CE}(\text{sat})$	$I_C=-1A, I_B=-1mA$	-	-	-1.5	V	
Base-Emitter Saturation Voltage	$V_{BE}(\text{sat})$	$I_C=-1A, I_B=-1mA$	-	-	-2.0	V	
Transition Frequency	f_T	$V_{CE}=-2V, I_C=-0.5A$	-	50	-	MHz	
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1\text{MHz}$	-	30	-	pF	
Switching Time	Turn-on Time	t_{on}			-	0.4	-
	Storage Time	t_{stg}	-	2.0	-	μs	
	Fall Time	t_f	-	0.4	-		

2SB1034

