

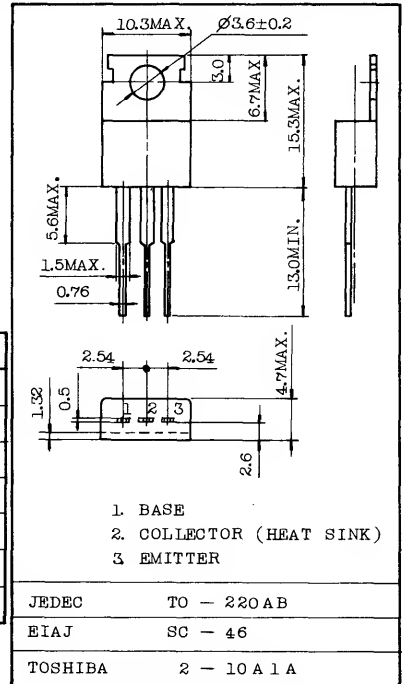
SWITCHING APPLICATIONS.
HAMMER DRIVE, PULSE MOTOR DRIVE APPLICATIONS.
POWER AMPLIFIER APPLICATIONS.

FEATURES:

- High DC Current Gain
- : $h_{FE}=2000$ (Min.) ($V_{CE}=-2V, I_C=-1A$)

INDUSTRIAL APPLICATIONS

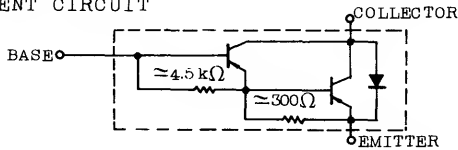
Unit in mm



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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	-100	V
Collector-Emitter Voltage	V_{CE0}	-80	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_C	-4	A
Collector Power Dissipation ($T_c=25^\circ C$)	P_C	30	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55~150	$^\circ C$

EQUIVALENT CIRCUIT



Mounting Kit No. AC75
Weight : 1.9g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=-100V, I_E=0$	-	-	-20	μA
Emitter Cut-off Current	I_{EB0}	$V_{EB}=-5V, I_C=0$	-	-	-2.5	mA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-10mA, I_B=0$	-80	-	-	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2V, I_C=-1A$	2000	-	-	
	$h_{FE(2)}$	$V_{CE}=-2V, I_C=-3A$	1000	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-3A, I_B=-6mA$	-	-	-1.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-3A, I_B=-6mA$	-	-	-2.0	V
Switching Time	Turn-on Time	t_{on}		0.15	-	μs
	Storage Time	t_{stg}		0.80	-	
	Fall Time	t_f	$-I_{B1} = I_{B2} = 6mA$ DUTY CYCLE $\leq 1\%$		0.40	

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