

SWITCHING APPLICATIONS.

HAMMER DRIVE, PULSE MOTOR DRIVE APPLICATIONS.

POWER AMPLIFIER APPLICATIONS.

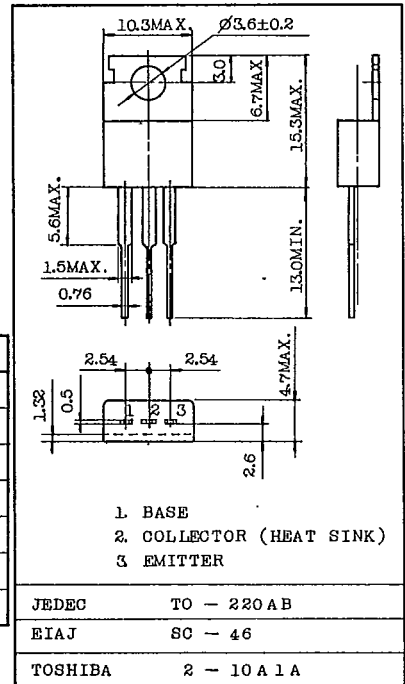
FEATURES:

• High DC Current Gain

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

INDUSTRIAL APPLICATIONS

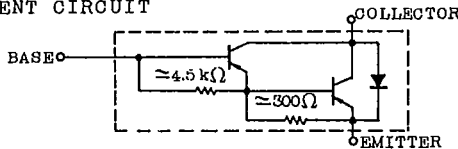
Unit in mm



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	$\mu A$
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	-	us
	Storage Time	$t_{stg}$		-	0.80	-	
	Fall Time	$t_f$		-	0.40	-	

