

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

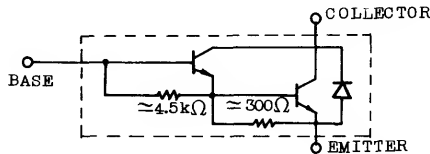
FEATURES:

- High DC Current Gain : $h_{FE}=2000$ (Min.) ($V_{CE}=2V, I_C=1A$)
- Complementary to 2SB676.

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

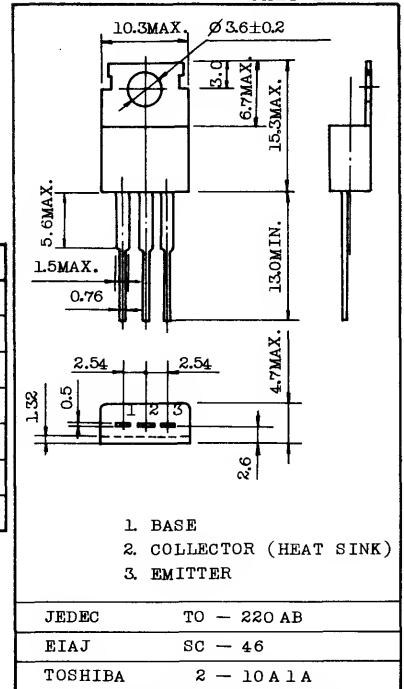
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I_C	4	A
Collector Power Dissipation ($T_c=25^\circ C$)	P_C	30	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range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

EQUIVALENT CIRCUIT



INDUSTRIAL APPLICATIONS

Unit in mm



1. BASE
2. COLLECTOR (HEAT SINK)
3. EMITTER

JEDEC TO - 220 AB

EIAJ SC - 46

TOSHIBA 2 - 10A 1A

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_{CBO}	$V_{CB}=100V, I_E=0$	-	-	20	μA
Emitter Cut-off Current		I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	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	-	-	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	$I_C=3A, I_B=6mA$	-	-	1.5	V
	Base-Emitter	$V_{BE(sat)}$	$I_C=3A, I_B=6mA$	-	-	2.0	
Switching Time	Turn-on Time	t_{on}		-	0.2	-	μs
	Storage Time	t_{stg}		-	1.5	-	
	Fall Time	t_f		-	0.6	-	

