

IGNITER APPLICATIONS.  
HIGH VOLTAGE SWITCHING APPLICATIONS.

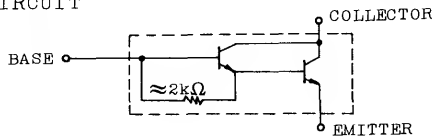
FEATURES:

- High DC Current Gain
- $h_{FE}=1500$  (Min.) ( $V_{CE}=2V, I_C=2A$ )

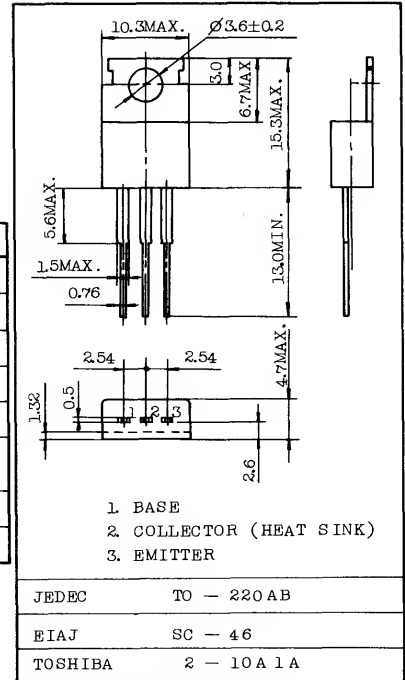
MAXIMUM RATINGS ( $T_a=25^\circ C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	600	V
Collector-Emitter Voltage	$V_{CEO}$	300	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	6	A
Base Current	$I_B$	1	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



INDUSTRIAL APPLICATIONS.  
Unit in mm

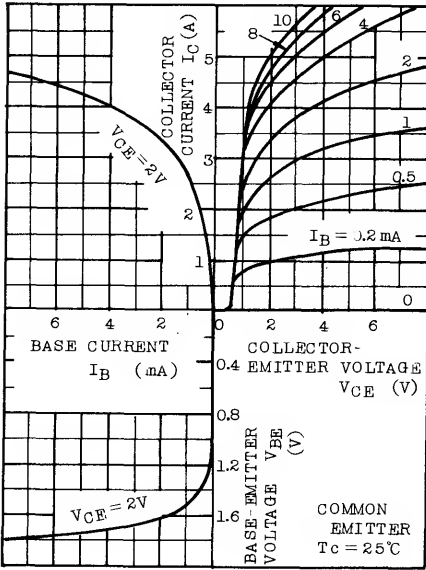


Mounting Kit No. AC75  
Weight : 1.9g

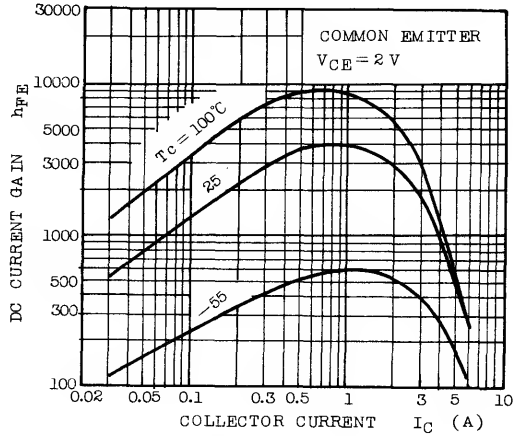
ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$ )

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		$I_{CBO}$	$V_{CB}=600V, I_E=0$	-	-	0.5	mA
Emitter Cut-off Current		$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	0.5	mA
Collector-Emitter Sustaining Voltage		$V_{CEO(SUS)}$	$I_C=0.5A, L=40mH$	300	-	-	V
DC Current Gain		$h_{FE(1)}$	$V_{CE}=2V, I_C=2A$	1500	-	-	
		$h_{FE(2)}$	$V_{CE}=2V, I_C=4A$	200	-	-	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=4A, I_B=0.04A$	-	-	2.0	V
Base-Emitter Saturation Voltage		$V_{BE(sat)}$	$I_C=4A, I_B=0.04A$	-	-	2.5	V
Collector Output Capacitance		$C_{ob}$	$V_{CB}=50V, I_E=0, f=1MHz$	-	35	-	pF
Switching Time	Turn-on Time	$t_{on}$		-	1	-	$\mu s$
	Storage Time	$t_{stg}$		-	8	-	
	Fall Time	$t_f$		-	5	-	

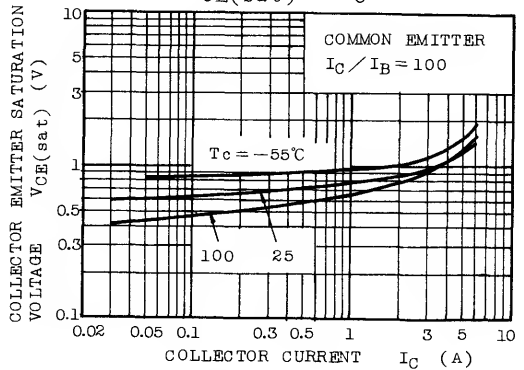
## STATIC CHARACTERISTICS



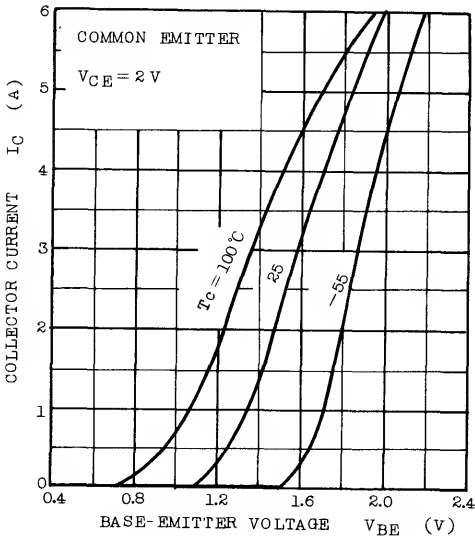
## $h_{FE} - I_C$



## $V_{CE(sat)} - I_C$



## $I_C - V_{BE}$



## $V_{BE(sat)} - I_C$

