

HIGH CURRENT SWITCHING APPLICATIONS.

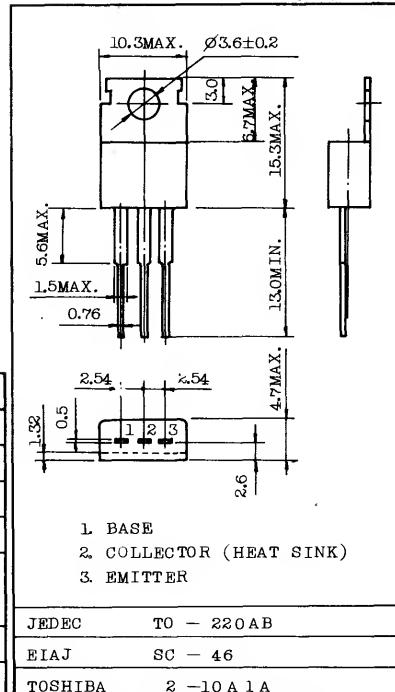
POWER AMPLIFIER APPLICATIONS.

## FEATURES:

- Low Saturation Voltage  
:  $V_{CE(sat)}=0.5V$  (Max.) (at  $I_C=4A$ )
- Complementary to 2SB753.

## INDUSTRIAL APPLICATIONS

Unit in mm



Mounting Kit No. AC75

Weight : 1.9g

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Voltage		$V_{CBO}$	$V_{CB}=100V, I_E=0$	-	-	5	$\mu A$
Collector-Emitter Voltage		$V_{CEO}$	$V_{EB}=5V, I_C=0$	-	-	5	$\mu A$
Emitter-Base Voltage		$V_{EBO}$	$I_C=50mA, I_B=0$	80	-	-	V
Collector Current		$I_C$					
Collector Power Dissipation	Ta=25°C	$P_C$	1.5	W			
	Tc=25°C		40				
Junction Temperature		$T_j$	$V_{CE}=1V, I_C=1A$	70	-	240	
Storage Temperature Range		$T_{stg}$	$V_{CE}=1V, I_C=4A$	30	-	-	
Saturation Voltage		$V_{CE(sat)}$	$I_C=4A, I_B=0.4A$	-	0.25	0.5	V
Base-Emitter		$V_{BE(sat)}$	$I_C=4A, I_B=0.4A$	-	0.9	1.4	
Transition Frequency		$f_T$	$V_{CE}=4V, I_C=1A$	-	10	-	MHz
Collector Output Capacitance		$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	250	-	pF
Switching Time	Turn-on Time	$t_{on}$	$I_{B1}=20mA, I_{B2}=0.3A$	-	0.4	-	
	Storage Time	$t_{stg}$	$I_{B1}=-I_{B2}=0.3A$	-	2.5	-	$\mu s$
	Fall Time	$t_f$	DUTY CYCLE $\leq 1\%$	-	0.5	-	

Note : hFE(1) Classification 0 : 70~140, Y : 120~240

## STATIC CHARACTERISTICS

