

HIGH CURRENT SWITCHING APPLICATIONS.
POWER AMPLIFIER APPLICATIONS.

FEATURES:

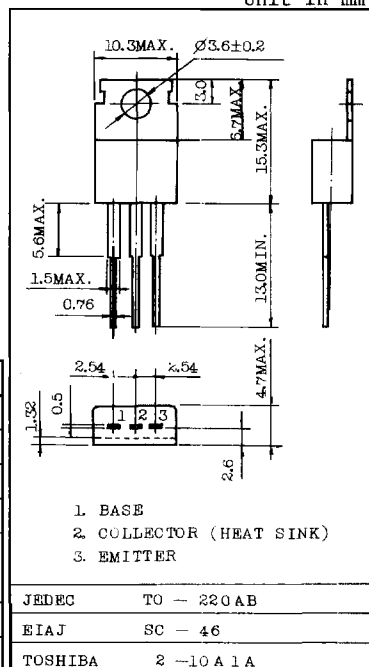
- Low Saturation Voltage
: $V_{CE(sat)}=0.5V$ (Max.) (at $I_C=4A$)
- Complementary to 2SB753.

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
Collector Current	I_C	7	A
Collector Power Dissipation	P_C	$T_a=25^\circ C$	1.5
		$T_c=25^\circ C$	40
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55~150	$^\circ C$

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}	$V_{CB}=100V, I_E=0$	-	-	5	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	5	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	80	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=1V, I_C=1A$	70	-	240	
	$h_{FE(2)}$	$V_{CE}=1V, I_C=4A$	30	-	-	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	-	0.25	0.5	V
	Base-Emitter	$V_{BE(sat)}$	-	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}	-	0.4	-	μs
	Storage Time	t_{stg}	-	2.5	-	
	Fall Time	t_f	-	0.5	-	

Note : $h_{FE(1)}$ Classification 0 : 70~140, Y : 120~240

STATIC CHARACTERISTICS

