

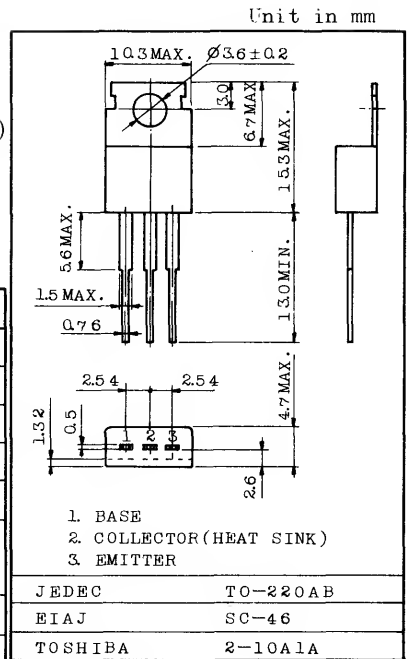
**HIGH VOLTAGE SWITCHING APPLICATIONS.**

**FEATURES:**

- High Voltage :  $V_{CB0}=800V$
- Low  $V_{CE(sat)}$  :  $V_{CE(sat)}=1.0V(\text{Max.})(I_C=0.5A, I_B=0.05A)$
- High Speed Switching :  $t_f=1.0\mu s$  (Max.)
- Glass Passivated Collector-Base Junction.

**MAXIMUM RATINGS (Ta=25°C)**

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		$V_{CB0}$	800	V
Collector-Emitter Voltage		$V_{CEO}$	400	V
Emitter-Base Voltage		$V_{EBO}$	5	V
Collector Current		$I_C$	3	A
Base Current		$I_B$	1.5	A
Collector Power Dissipation	Ta=25°C	$P_C$	1.5	W
	Tc=25°C		40	
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-55~150	°C



Weight : 1.9g  
Mounting kit No. AC75

**ELECTRICAL CHARACTERISTICS (Ta=25°C)**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=800V, I_E=0$	-	-	1	mA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	1	mA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	400	-	-	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5V, I_C=10mA$	8	-	-	
	$h_{FE(2)}$	$V_{CE}=5V, I_C=0.5A$	10	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=0.5A, I_B=0.05A$	-	-	1.0	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=0.5A, I_B=0.05A$	-	-	1.5	V
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	75	-	pF
Transition Frequency	$f_T$	$V_{CE}=10V, I_E=-0.1A$	-	4	-	MHz
Fall Time	$t_f$	<p>DUTY CYCLE &lt; 2% <math>I_C=0.5A, I_{B1}=-I_{B2}=0.05A</math></p>	-	-	1.0	µs

