

INDUSTRIAL APPLICATIONS

Unit in mm

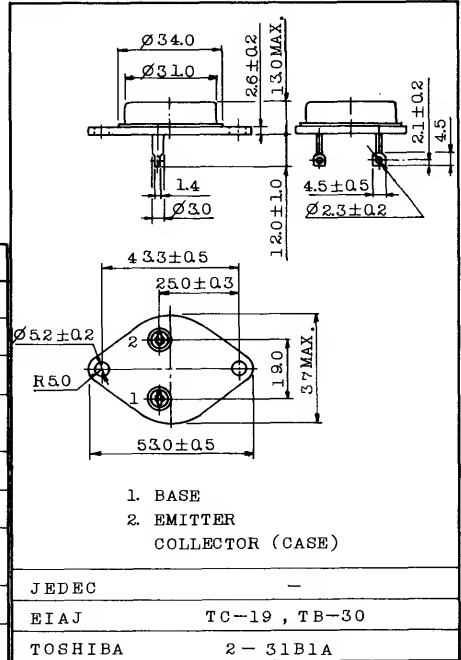
HIGH POWER SWITCHING APPLICATIONS.
 HIGH FREQUENCY INVERTER APPLICATIONS.
 SWITCHING REGULATOR APPLICATIONS.

FEATURES:

- High Collector Emitter Voltage

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	500	V
Collector-Emitter Voltage	V _{CE0}	400	V
Emitter-Base Voltage	V _{EB0}	5	V
Collector Current	I _C	30	A
Peak Collector Current	I _{C peak}	60 (1 ms)	A
Base Current	I _B	10	A
Collector Power Dissipation	P _C	250	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-65 ~ 150	°C



Mounting kit No. AC227 & AC88B
 Weight : 50g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =500V, I _E =0	-	-	0.2	mA
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0	-	-	0.2	mA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =10mA, I _B =0	400	-	-	V
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =20A	10	-	-	
		V _{CE} =5V, I _C =30A	5	-	-	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =20A, I _B =3A	-	-	1.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)}		-	-	2.0	V
Collector Output Capacitance	C _{ob}	V _C =50V, I _E =0, f=1MHz	-	400	-	pF
Switching Time	Turn-on Time	t _{on}	-	-	1.5	μs
	Storage Time	t _{stg}	-	-	3.0	
	Fall Time	t _f	2 I _{B1} =-I _{B2} =6A DUTY CYCLE=1%	-	-	