

HIGH POWER SWITCHING REGULATOR APPLICATIONS.

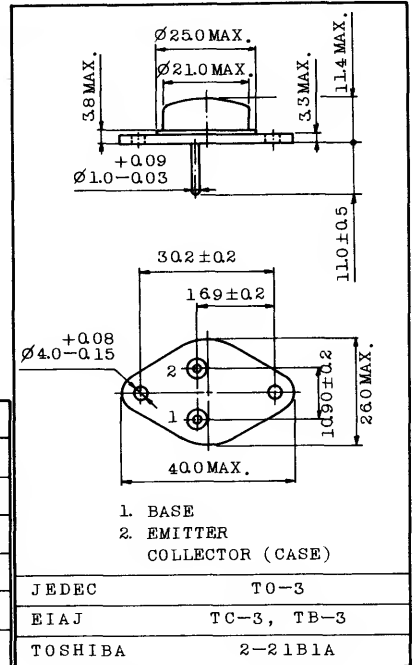
FEATURES:

- . High Voltage : $V_{CBO}=900V$
- . High Peak Current Capability : $I_C(\text{Peak})=8A$
- . Fall Time : $t_f=0.5\mu s$ (Max.)
- . Glass Passivated Collector-Base Junction.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	900	V
Collector-Emitter Voltage	V_{CEO}	400	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	DC	I_C	6 A
	Peak	I_{CP}	8 A
Collector Power Dissipation ($T_c=25^\circ C$)	P_C	60	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-65 ~ 150	$^\circ C$

Unit in mm



JEDEC	T0-3
EIAJ	TC-3, TB-3
TOSHIBA	2-21B1A

Mounting Kit No. AC42C

Weight : 17.0g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	900	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	400	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=5mA, I_C=0$	7	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=4A$	3.5	-	12	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4A, I_B=1.25A$	-	-	3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=4A, I_B=1.25A$	-	-	1.5	V
Fall Time	t_f	$I_{CP}=2.5A, I_{B1}=0.5A, I_{B2}=-1A$	-	-	0.5	μs
Transition Frequency	f_T	$V_{CE}=10V, I_C=0.1A$	-	5	-	MHz

BU326A

