

# BU208A

SILICON NPN TRIPLE DIFFUSED MESA TYPE

COLOR TV HORIZONTAL OUTPUT APPLICATIONS.  
 COLOR TV SWITCHING REGULATOR APPLICATIONS.

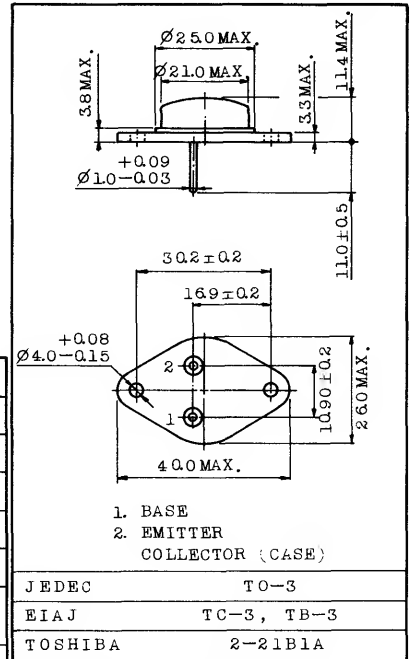
Unit in mm

**FEATURES:**

- . High Voltage :  $V_{CES}=1500V$
- . Low Saturation Voltage :  $V_{CE(sat)}=1V$  (Max.)
- . Fall Time :  $t_f=0.7\mu s$  (Typ.)
- . Glass Passivated Collector-Base Junction

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Emitter Voltage	$V_{CES}$	1500	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	DC	$I_C$	5 A
	Peak	$I_{CM}$	7.5 A
Base Current (Peak)	$I_{BM}$	4	A
Total Power Dissipation ( $T_c \leq 95^\circ C$ )	$P_{tot}$	12.5	W
Junction Temperature	$T_j$	+115	$^\circ C$
Storage Temperature Range	$T_{stg}$	-65 ~ +115	$^\circ C$
Thermal Resistance	$R_{th(j-c)}$	1.6	$^\circ C/W$



Mounting Kit No. AC42C

Weight : 17.0g

**ELECTRICAL CHARACTERISTICS ( $T_c=25^\circ C$ )**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CES}$	$V_{CE}=1500V, V_{BE}=0$	-	-	1	mA
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	5	-	-	V
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=4.5A$	2.25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4.5A, I_B=2A$	-	-	1	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=4.5A, I_B=2A$	-	-	1.5	V
Collector-Emitter Sustaining Voltage	$V_{CEO(SUS)}$	$I_C=100mA, I_B=0$ $L=25mH$	700	-	-	V
Transition Frequency	$f_T$	$V_{CE}=5V, I_C=0.1A$	-	7	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	125	-	pF
Switching Time	Fall Time	$t_f$	-	0.7	-	$\mu s$
	Storage Time	$t_{stg}$	-	10	-	$\mu s$

