

9097250 TOSHIBA (DISCRETE/UP10)

SILICON NPN TRIPLE DIFFUSED MESA TYPE



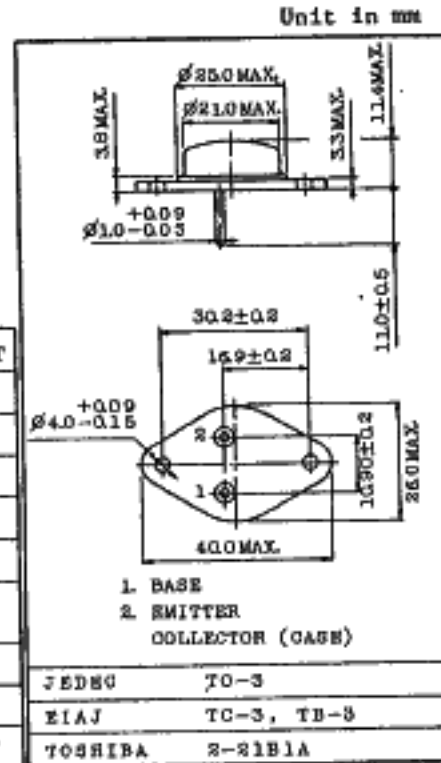
COLOR TV HORIZONTAL OUTPUT APPLICATIONS.

FEATURES:

- High Voltage :  $V_{CES}=1500V$
- Low Saturation Voltage :  $V_{CE(sat)}=1V$  (Max.) (S2818A)
- High Speed :  $t_f=0.7\mu s$  (Typ.)
- Built-in Damper Type.
- Glass Passivated Collector-Base Junction.

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

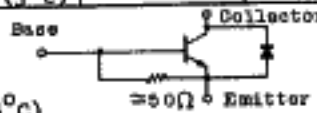
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Emitter Voltage	$V_{CES}$	1500	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	DC $I_C$	5	A
	Peak $I_{CM}$	7.5	A
Base Current (Peak)	$I_{BM}$	4	A
Total Power Dissipation ( $T_c \leq 95^\circ C$ )	$P_{tot}$	12.5	W
Junction Temperature	$T_j$	+115	$^\circ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



1. BASE  
2. EMITTER  
COLLECTOR (GASS)

JED80	TO-3
EIAJ	TC-3, TB-3
TOSHIBA	2-21B1A

EQUIVALENT CIRCUIT



Mounting Kit No. AC42C

Weight : 17.0g

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

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	$V_{(BR)EBO}$	$I_E=200mA, I_C=0$	5	-	-	V
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=4.5A$	2.25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4.5A, I_B=2A$	-	-	5	V
			-	-	1	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=4.5A, I_B=2A$	-	-	1.5	V
Forward Voltage (Diode)	$-V_F$	$I_F=5A$	-	1.4	2.0	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	$I_{CM}=4.5A, I_{B(end)}=1.8A$	-	0.7	-	$\mu s$
	Storage Time	$I_{CM}=4.5A, I_{B(end)}=1.8A$	-	10	-	$\mu s$

TOSHIBA CORPORATION

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