

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07799 DT-33-11

2SD818

SILICON NPN TRIPLE DIFFUSED MESA TYPE

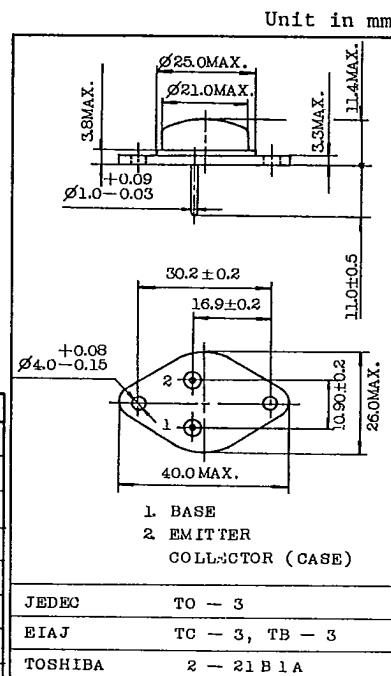
COLOR TV HORIZONTAL OUTPUT APPLICATIONS.

FEATURES :

- High Voltage : $V_{CBO}=1500V$
- Low Saturation Voltage : $V_{CE(sat)}=4V$ (Typ.)
- High speed : $t_f=0.5\mu s$ (Typ.)
- Glass Passivated Collector-Base Junction.

MAXIMUM RATINGS (T_a=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector Base Voltage	VCBO	1500	V
Collector Emitter Voltage	VCEO	600	V
Emitter Base Voltage	VEBO	5	V
Collector Current	IC	2.5	A
Emitter Current	IE	-2.5	A
Collector Power Dissipation (Tc=25°C)	PC	50	W
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	-65~150	°C



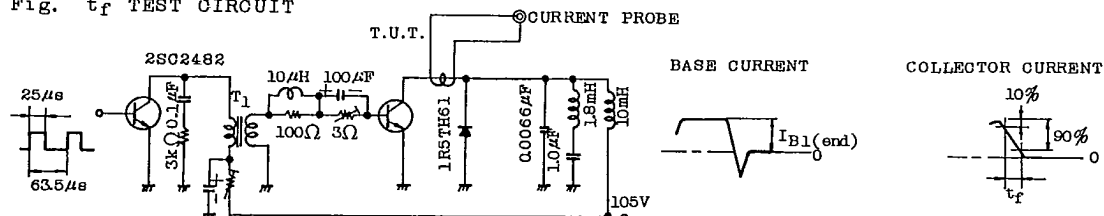
Mounting kit No. AC42C

Weight : 17g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=500V, I_E=0$	-	-	10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	1	mA
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=0.5A$	8	20	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2.0A, I_B=0.6A$	-	4	8	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=2.0A, I_B=0.6A$	-	-	1.5	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=0.1A$	-	3	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	95	-	pF
Fall Time	t_f	$I_{CP}=20A, I_{B1}(end)=0.6A(Fig.)$	-	0.5	1.0	μs

Fig. t_f TEST CIRCUIT



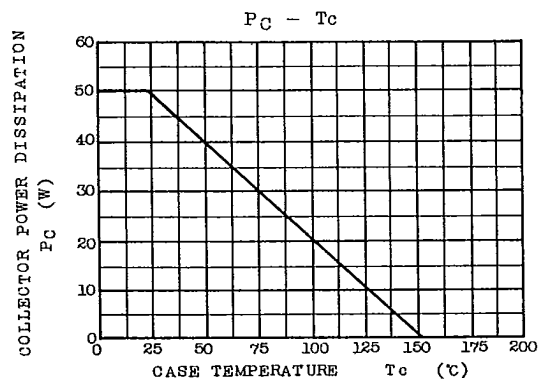
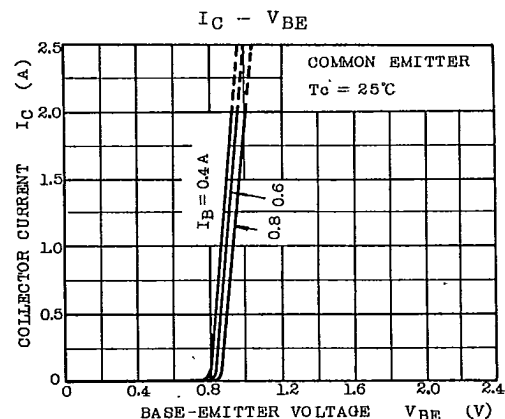
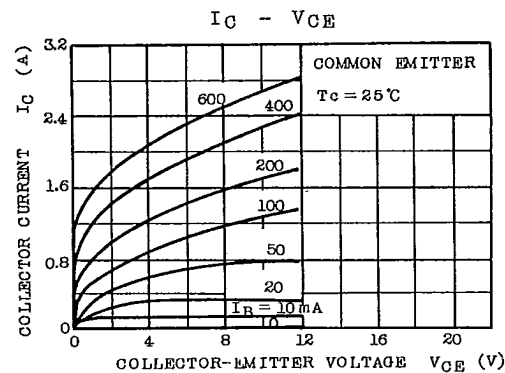
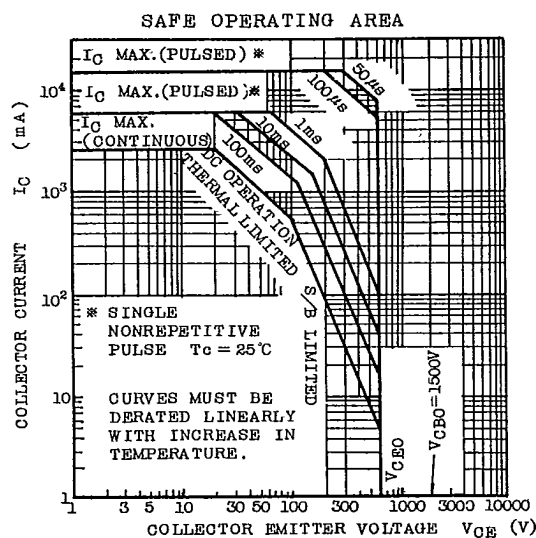
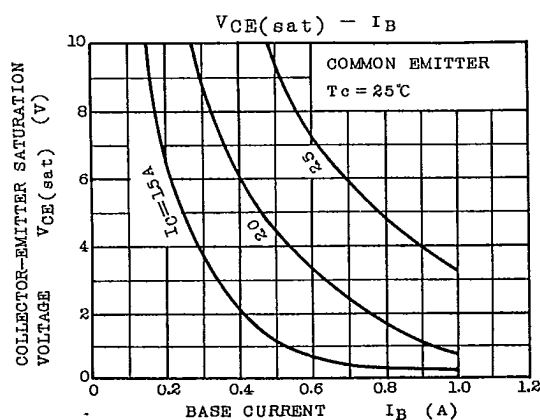
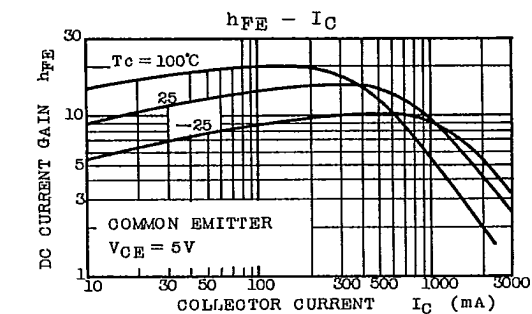
TOSHIBA CORPORATION

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