

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07970

DT-33-13

SILICON NPNTIPLE DIFFUSED MESA TYPE

2SD1430

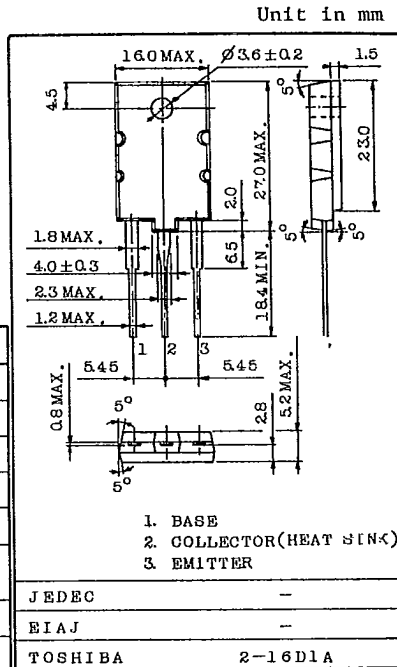
COLOR TV HORIZONTAL OUTPUT APPLICATIONS.

FEATURES:

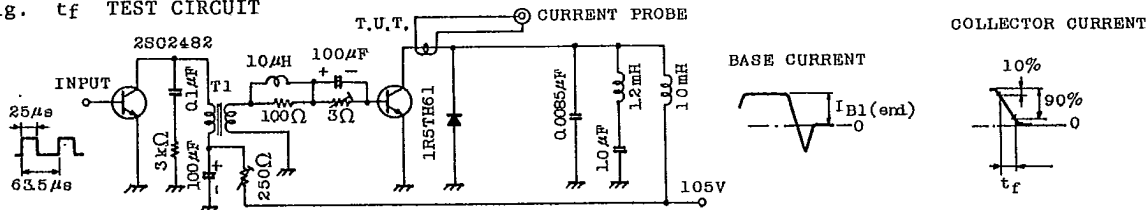
- High Voltage : $V_{CBO}=1500V$
- Low Saturation Voltage : $V_{CE(sat)}=4V$ (Typ.) ($I_C=3A$, $I_B=0.8A$)
- High Speed : $t_f=1.0\mu s$ (Max.) ($I_{CP}=3A$, $I_{B1(end)}=0.8A$)
- Glass Passivated Collector-Base Junction

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	1500	V
Collector-Emitter Voltage	V_{CEO}	600	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	3.5	A
Emitter Current	I_E	-3.5	A
Collector Power Dissipation ($T_c=25^\circ C$)	P_C	80	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$

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

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	$V_{CE(sat)}$	$I_C=3A$, $I_B=0.8A$	-	4	8	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=3A$, $I_B=0.8A$	-	-	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 (Fig.)	t_f	$I_{CP}=3A$, $I_{B1(end)}=0.8A$	-	0.5	1.0	μs

Fig. t_f TEST CIRCUIT

TOSHIBA CORPORATION

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