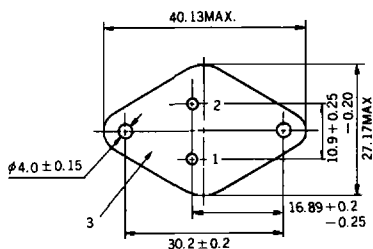
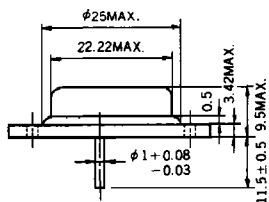


SILICON POWER TRANSISTOR 2SC1325A

HORIZONTAL DEFLECTION OUTPUT FOR COLOR TV NPN SILICON TRIPLE DIFFUSED MESA TRANSISTOR

PACKAGE DIMENSIONS (Unit : mm)



1. Base
2. Emitter
3. Collector connected to case

EIAJ : TC-3, TB-3
JEDEC : TO-204MA (TO-3)
IEC : C14A, B1B

- Suitable for horizontal deflection output applications of 20", 110° color TV receivers.
- High breakdown voltage
- Excellent t_f vs. T_a curve
- Wide safe operating area

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

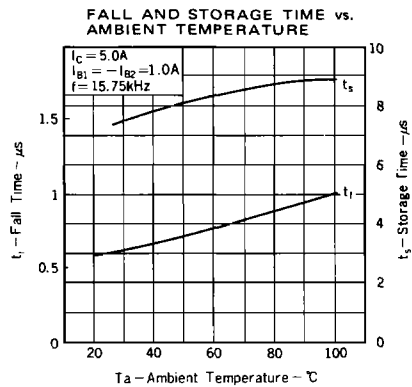
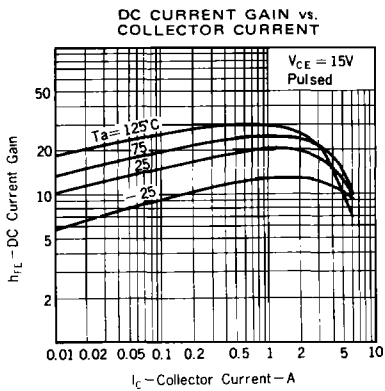
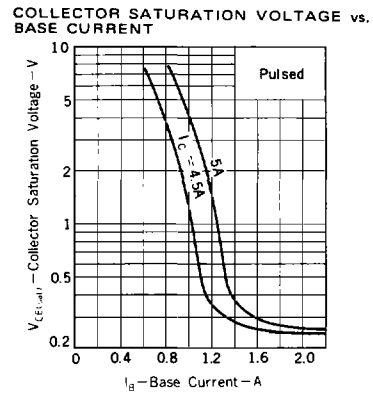
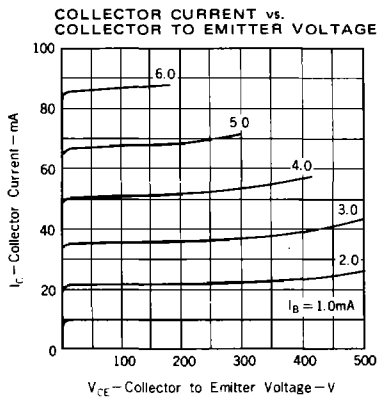
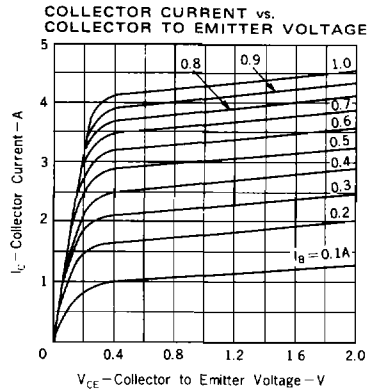
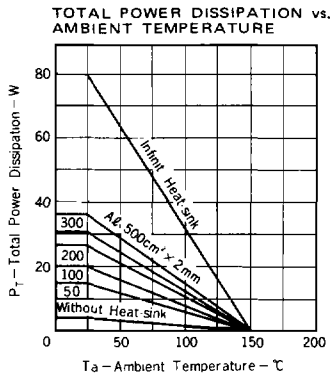
Collector to Base Voltage	V_{CB0}	1500	V
Collector to Emitter Voltage	V_{CE0}	600	V
Emitter to Base Voltage	V_{EB0}	6.0	V
Collector Current	I_C (DC)	6.0	A
Collector Current (pulse)	I_C (pulse)	15	A
Total Power Dissipation	P_T ($T_C = 25^\circ\text{C}$)	80	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-65 to +150	$^\circ\text{C}$

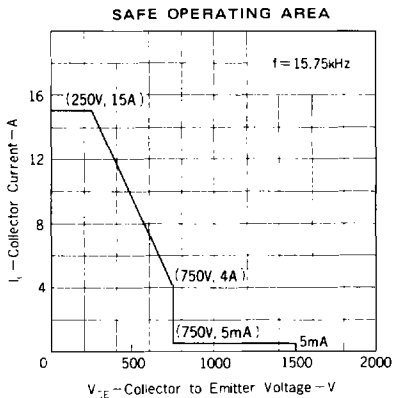
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector Cutoff Current	I_{CB0}			20	μA	$V_{CB} = 1000\text{V}, I_E = 0$
Emitter Cutoff Current	I_{EB0}			200	μA	$V_{EB} = 5.0\text{V}, I_C = 0$
DC Current Gain	h_{FE1}	10	19	45		$V_{CE} = 15\text{V}, I_C = 1.0\text{A}$ *
	h_{FE2}	5.0	16	35		$V_{CE} = 15\text{V}, I_C = 5.0\text{A}$ *
Collector Saturation Voltage	$V_{CE(sat)}$		1.5	4.0	V	$I_C = 5.0\text{A}, I_B = 1.2\text{A}$ *
Base Saturation Voltage	$V_{BE(sat)}$	0.9	1.0	1.1	V	$I_C = 5.0\text{A}, I_B = 1.2\text{A}$ *
Fall Time	t_f			0.8	μs	$I_C = 5.0\text{A}, I_{B1} = 1.0\text{A}, I_{B2} = -1.0\text{A}$ See Application Circuit.
Storage Time	t_s		7.5	10	μs	$I_C = 5.0\text{A}, I_{B1} = 1.0\text{A}, I_{B2} = -1.0\text{A}$ See Application Circuit.

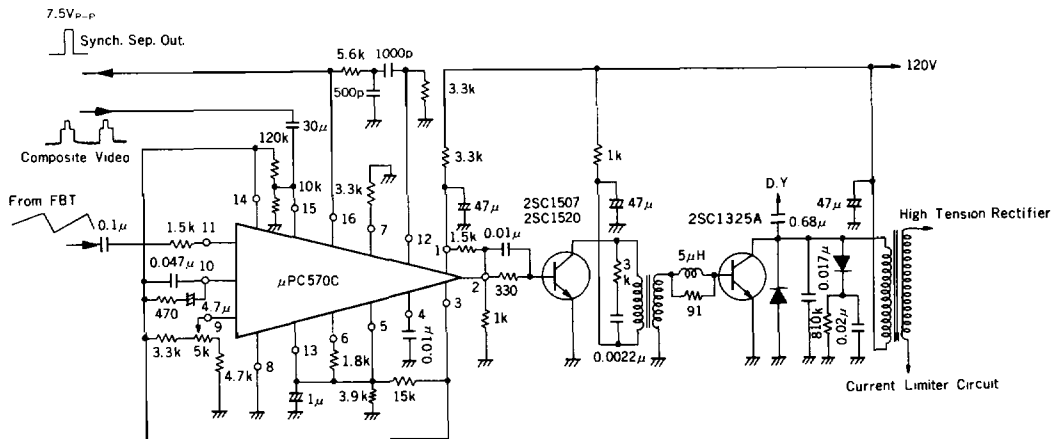
* Pulsed

TYPICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)





TYPICAL APPLICATION FOR HORIZONTAL OUTPUT OF COLOR TV



○ Drive Transformer
 $L_1 = 25\text{mH } 2.4\Omega$
 $\phi = 0.26\phi \text{ } 130\text{T}$
 $n_1/n_2 = 16$

