

**SANYO**

No. 3320

**2SD2252**

NPN Triple Diffused Planar Silicon Transistor  
Color TV Horizontal Deflection Output  
Applications

**Applications**

- Color TV horizontal deflection output
- Color Display horizontal deflection output

**Features**

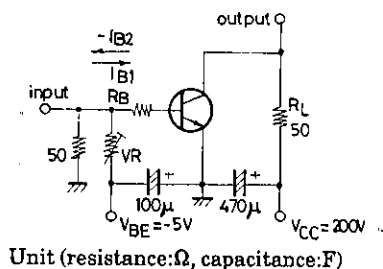
- High-speed :  $t_f = 100\text{nsec}$
- High breakdown voltage :  $V_{CBO} = 1500\text{V}$
- High reliability : Adoption of HVP process

**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

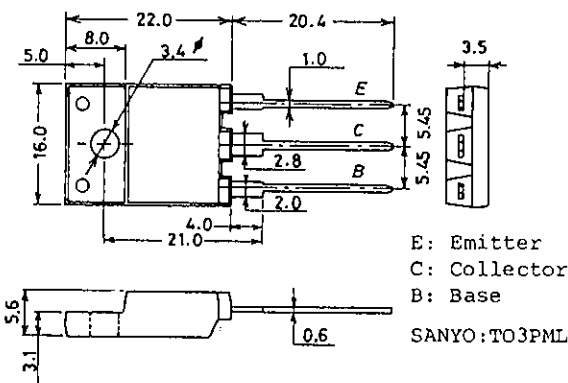
			unit
Collector-to-Base Voltage	$V_{CBO}$	1500	V
Collector-to-Emitter Voltage	$V_{CEO}$	800	V
Emitter-to-Base Voltage	$V_{EBO}$	6	V
Collector Current	$I_C$	7	A
Peak Collector Current	$i_{cp}$	20	A
Collector Dissipation	$P_C$	60	W
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

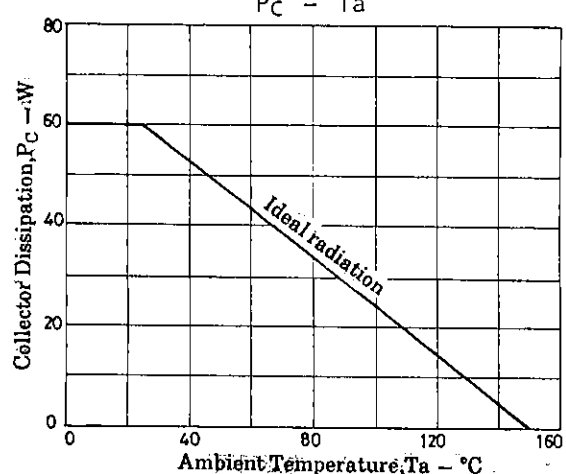
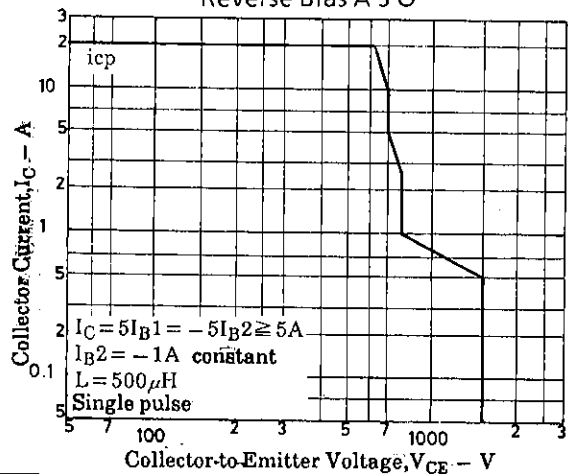
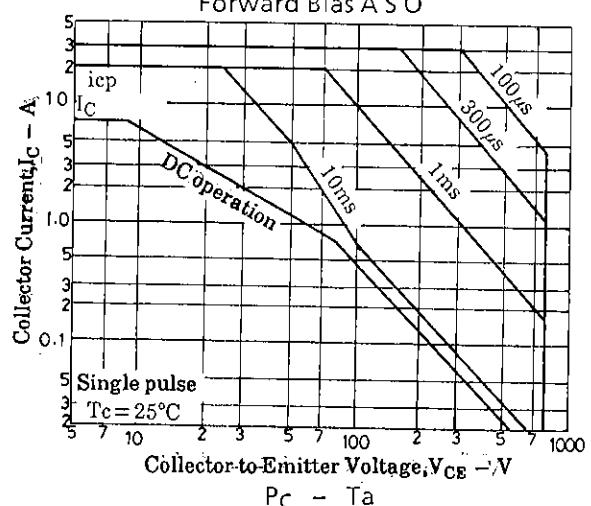
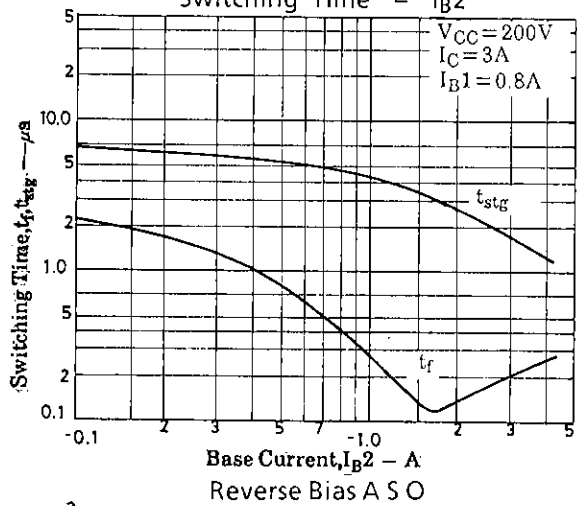
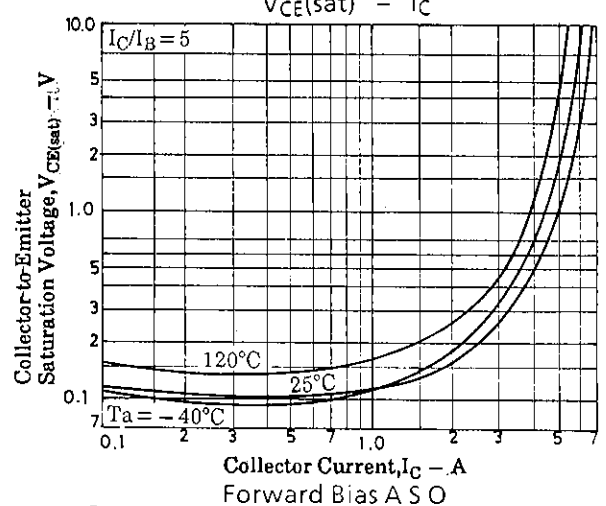
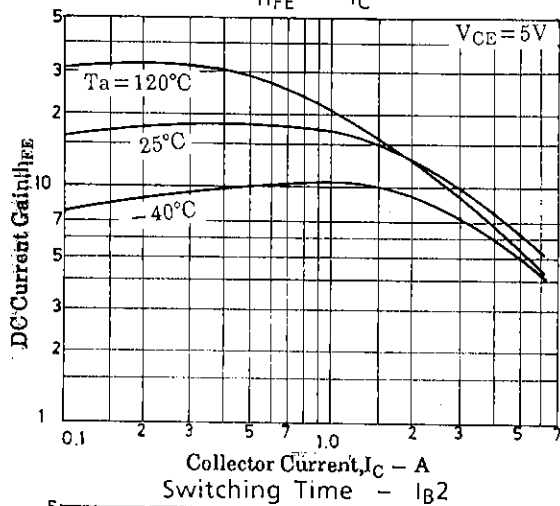
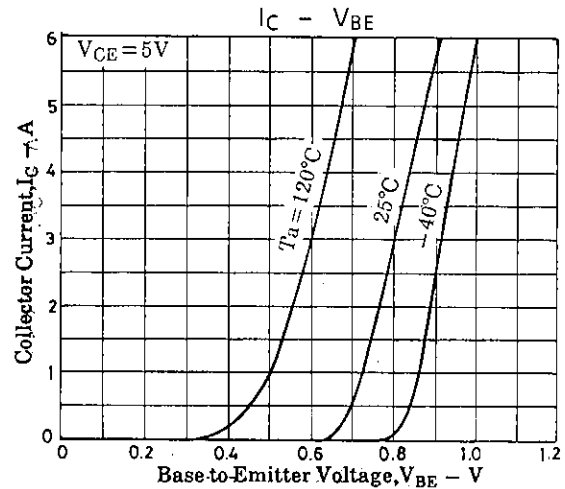
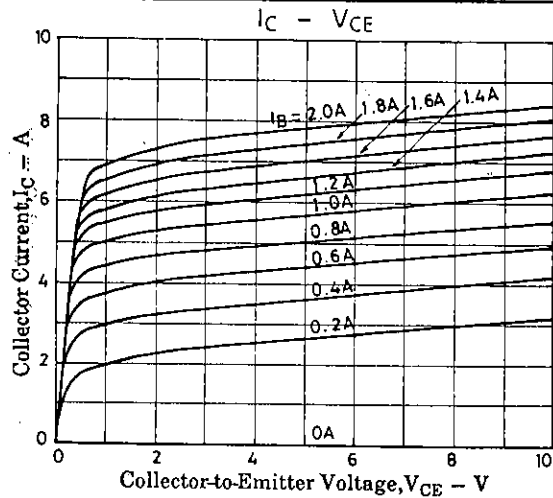
**Electrical Characteristics at  $T_a = 25^\circ\text{C}$** 

			min	typ	max	unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 800\text{V}, I_E = 0$			10	$\mu\text{A}$
Collector Cutoff Current	$I_{CES}$	$V_{CE} = 1500\text{V}, R_{BE} = 0$			1.0	mA
Collector Sustain Voltage	$V_{CEO(sus)}$	$I_C = 100\text{mA}, I_B = 0$	800			V
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 4\text{V}, I_C = 0$			1.0	mA
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = 5\text{A}, I_B = 1\text{A}$			5	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = 5\text{A}, I_B = 1\text{A}$			1.5	V
DC Current Gain	$h_{FE1}$	$V_{CE} = 5\text{V}, I_C = 1\text{A}$	8			
	$h_{FE2}$	$V_{CE} = 5\text{V}, I_C = 5\text{A}$	5		8	
Fall Time	$t_f$	$I_C = 4\text{A}, I_{B1} = 0.8\text{A}, I_{B2} = -1.6\text{A}$		0.1	0.3	$\mu\text{s}$

**Switching Time Test Circuit**PW = 20  $\mu\text{s}$ , duty  $\leq 1\%$ **Package Dimensions 2039A**

(unit : mm)





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