

<b>SANYO</b>	No.5290	<b>2SC5296</b>
		NPN Triple Diffused Planar Silicon Transistor Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

**Features**

- High Speed :  $t_r = 100\text{ns typ.}$
- High breakdown voltage :  $V_{CBO} = 1500\text{V.}$
- High reliability (Adoption of HVP process).
- Adoption of MBIT process.
- On-chip damper diode.

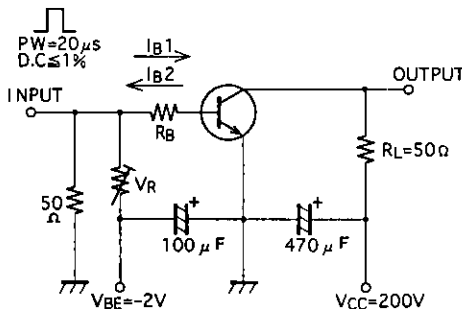
**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$**

			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	$I_C$	8	A
Collector Current (Pulse)	$I_{CP}$	16	A
Collector Dissipation	$P_C$	3.0	W
		$T_c = 25^\circ\text{C}$	
Junction Temperature	$T_j$	60	W
Storage Temperature	$T_{stg}$	150	$^\circ\text{C}$
		-55 to +150	$^\circ\text{C}$

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

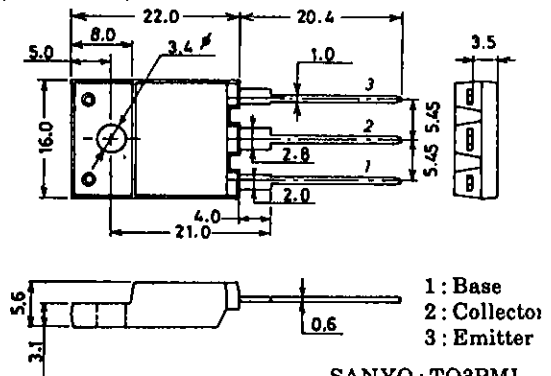
			min	typ	max	unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 800\text{V}, I_E = 0$			10	$\mu\text{A}$
Collector Cutoff Current	$I_{CES}$	$V_{CE} = 1500\text{V}, R_{BE} = 0$			1.0	mA
Collector Sustaining Voltage	$V_{CEO(SUS)}$	$I_C = 100\text{mA}, I_B = 0$	800			V
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 4\text{V}, I_C = 0$	40		130	mA
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = 5\text{A}, I_B = 1.25\text{A}$			5	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = 5\text{A}, I_B = 1.25\text{A}$			1.5	V
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 5\text{V}, I_C = 1\text{A}$	15		25	
	$h_{FE(2)}$	$V_{CE} = 5\text{V}, I_C = 5\text{A}$	4		7	
Storage Time	$t_{stg}$	$I_C = 4\text{A}, I_{B1} = 0.8\text{A}, I_{B2} = -1.6\text{A}$			3.0	$\mu\text{s}$
Fall Time	$t_f$	$I_C = 4\text{A}, I_{B1} = 0.8\text{A}, I_{B2} = -1.6\text{A}$	0.1	0.2		$\mu\text{s}$

**Switching Time Test Circuit**



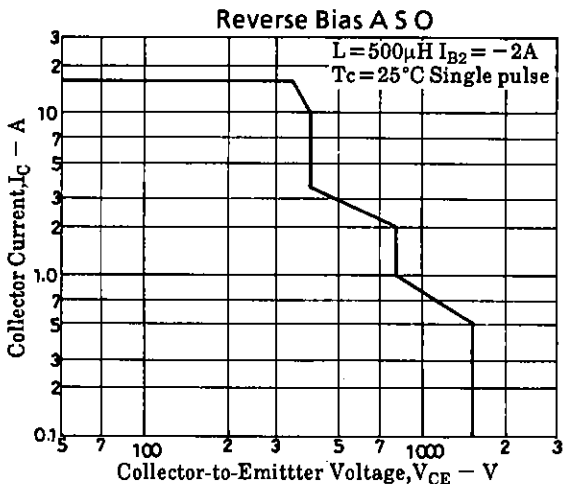
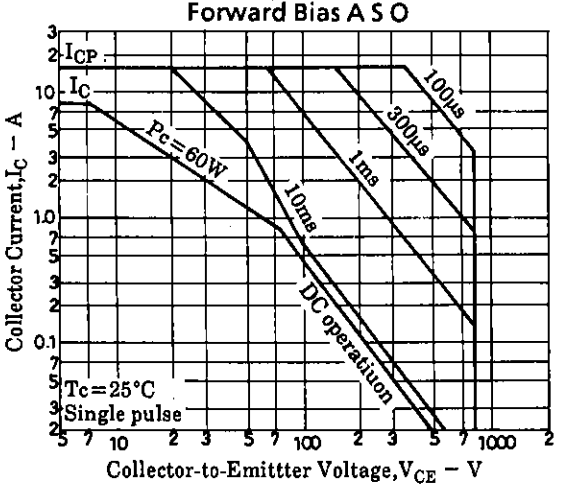
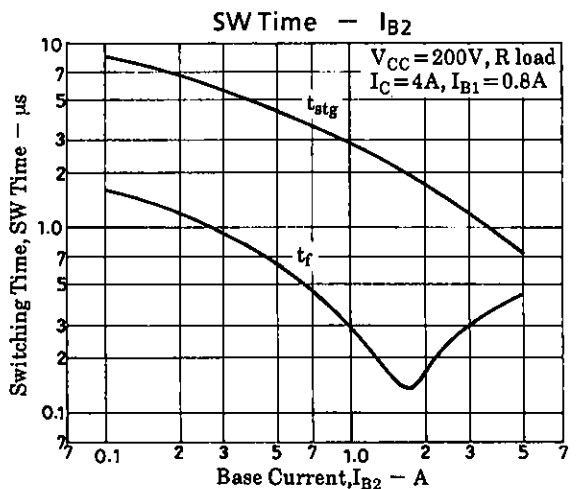
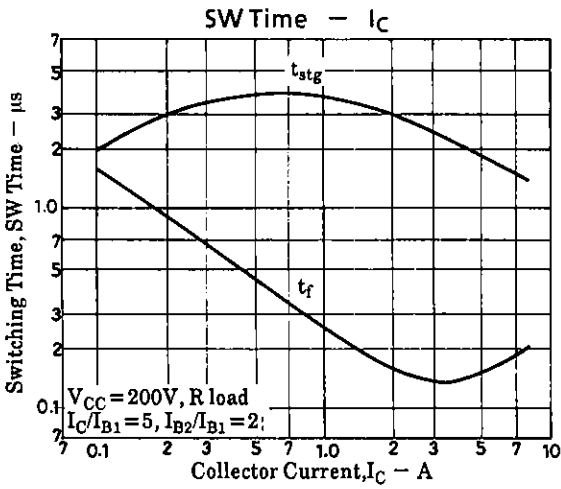
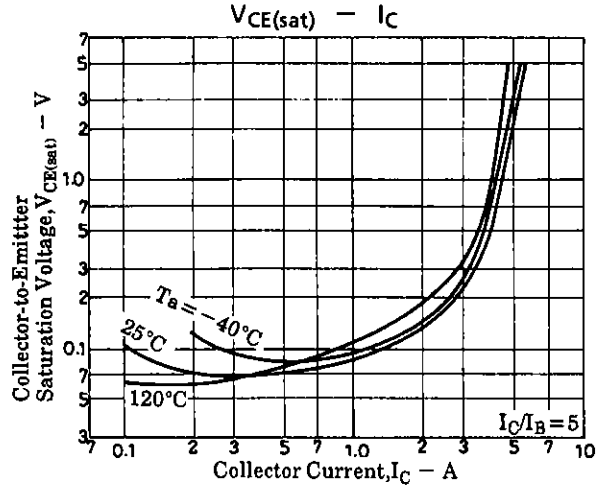
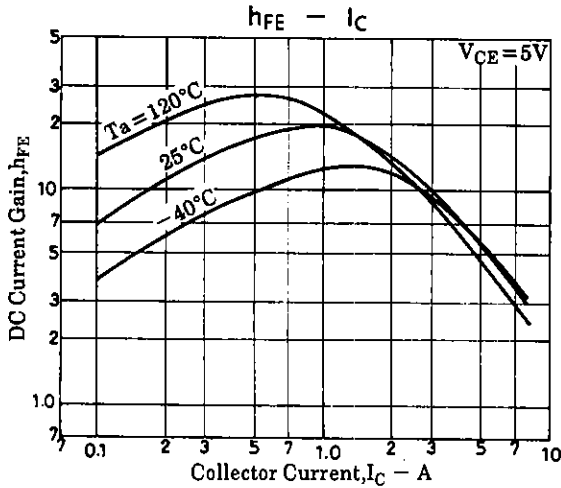
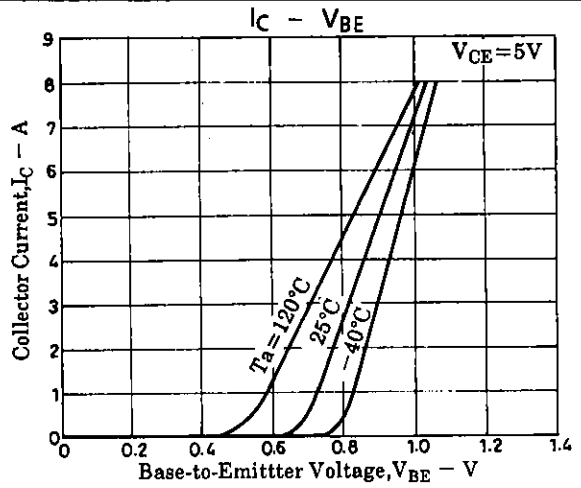
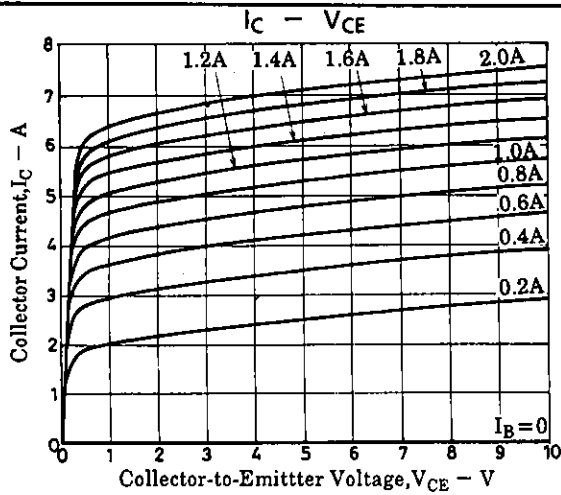
**Package Dimensions 2039C**

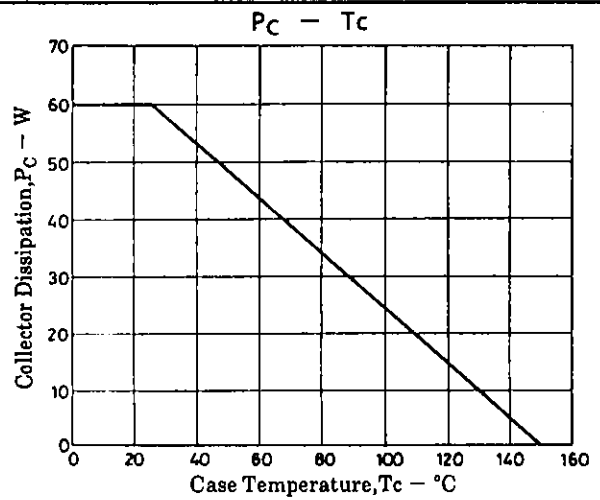
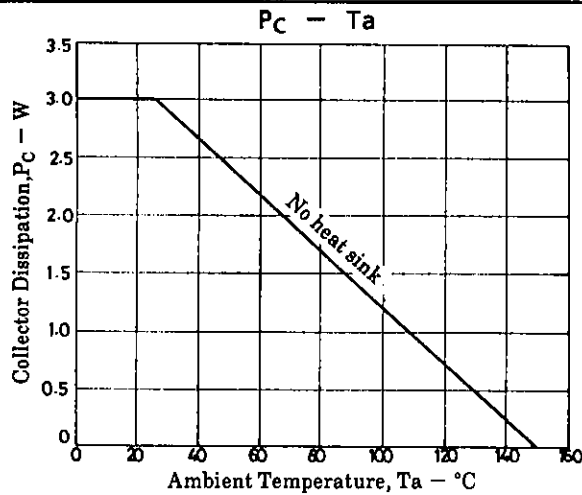
(unit : mm)



SANYO : TO3PML

**SANYO Electric Co., Ltd. Semiconductor Business Headquarters**  
 TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN





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