

SANYO

No.2426A

2SD1879

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

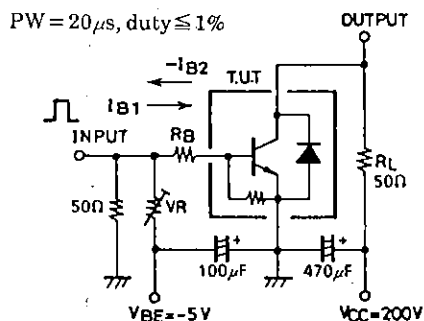
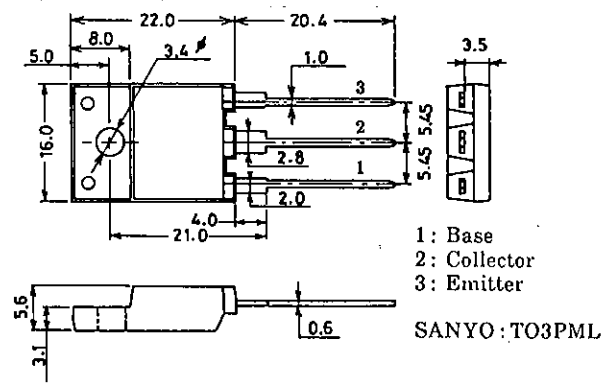
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

			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	6	A
Collector Current (Pulse)	I_{CP}	20	A
Collector Dissipation	P_C	3.0	W
		60	W
		150	$^\circ\text{C}$
Junction Temperature	T_j		$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

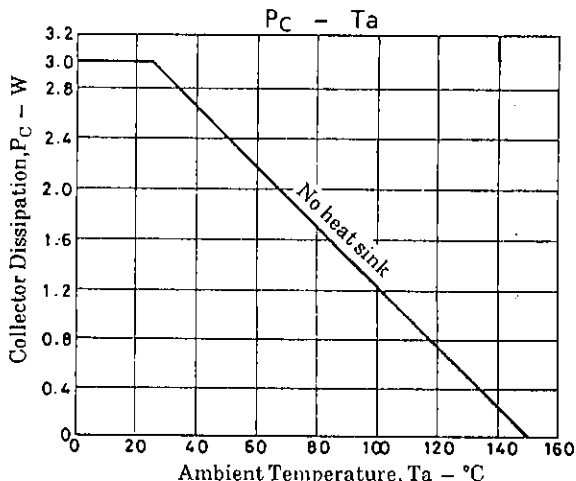
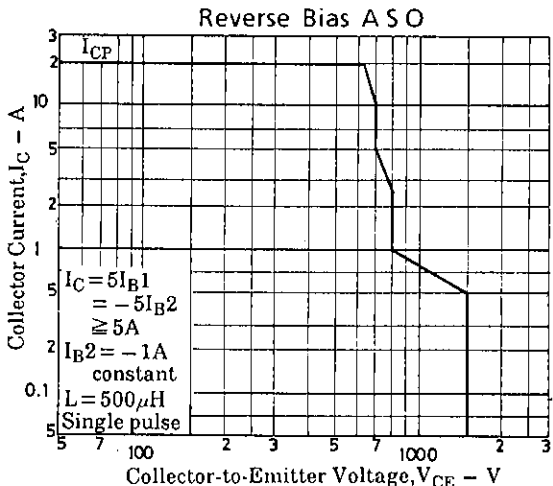
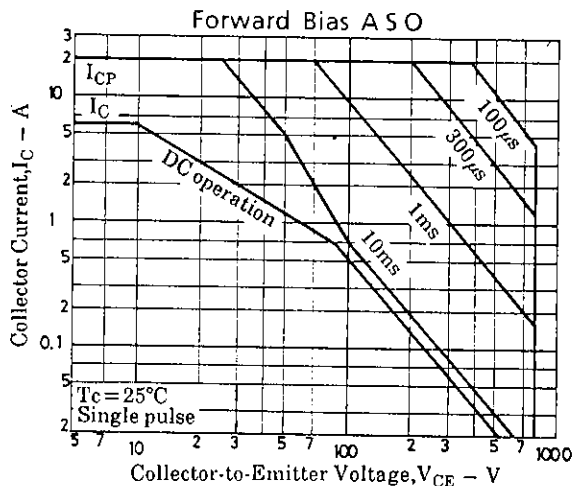
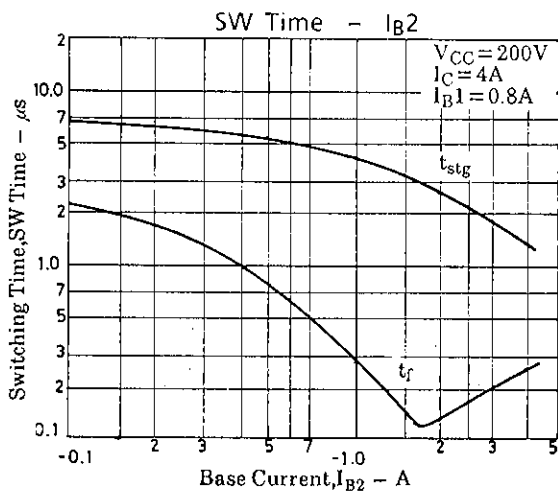
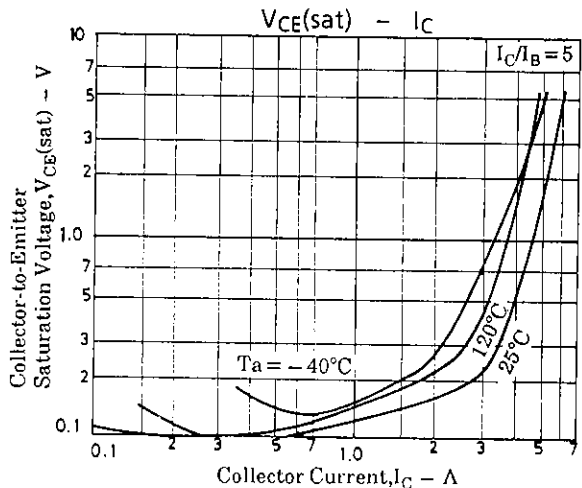
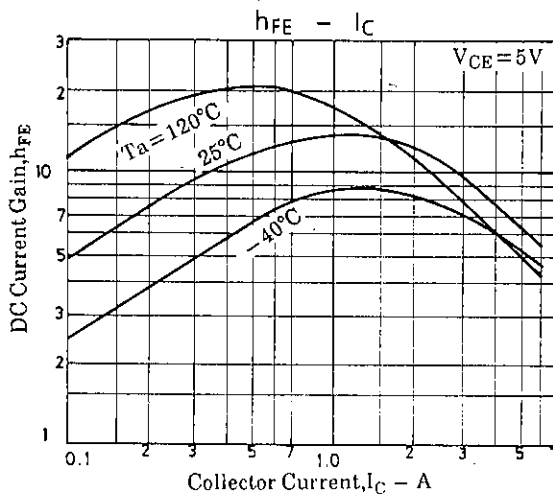
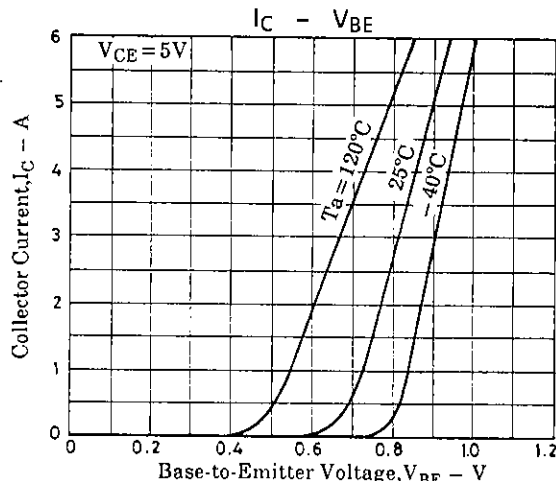
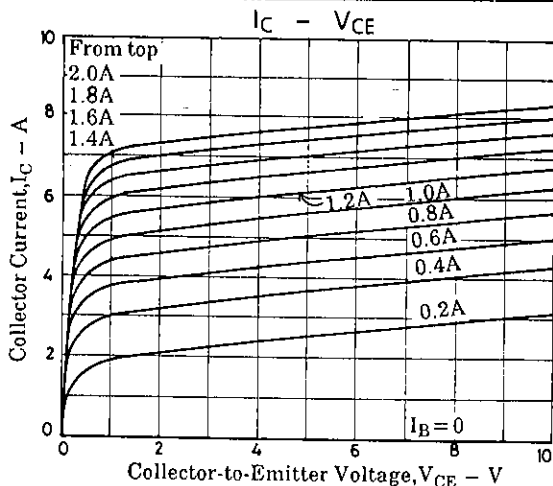
$T_c = 25^\circ\text{C}$

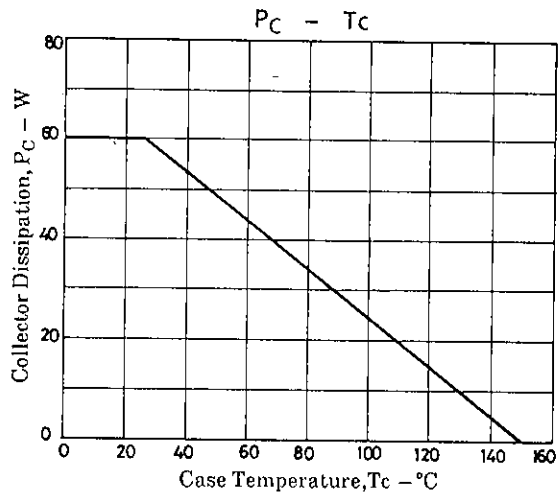
Electrical Characteristics at $T_a = 25^\circ\text{C}$

			min	typ	max	unit
Collector Cutoff Current	I_{CES}	$V_{CE} = 1500\text{V}$			1.0	mA
	I_{CBO}	$V_{CB} = 800\text{V}, I_E = 0$			10	μA
Collector Sustain Voltage	$V_{CEO}(\text{sus})$	$I_C = 100\text{mA}, I_B = 0$	800			V
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4\text{V}, I_C = 0$	40		130	mA
C-E Saturation Voltage	$V_{CE}(\text{sat})$	$I_C = 5\text{A}, I_B = 1\text{A}$			5	V
B-E Saturation Voltage	$V_{BE}(\text{sat})$	$I_C = 5\text{A}, I_B = 1\text{A}$			1.5	V
DC Current Gain	$h_{FE}(1)$	$V_{CE} = 5\text{V}, I_C = 1\text{A}$	8			
	$h_{FE}(2)$	$V_{CE} = 5\text{V}, I_C = 5\text{A}$	5		10	
Diode Forward Voltage	V_F	$I_{EC} = 6\text{A}, I_B = 0$			2.0	V
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	μs

Switching Time Test Circuit**Package Dimensions 2039B
(unit: mm)**

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