

SANYO

No.2427A

2SD1880

NPN Triple Diffused Planar Silicon Transistor

Color TV Horizontal Deflection
Output Applications**Applications**

- Color TV horizontal deflection output.
- Color display horizontal deflection output.

Features

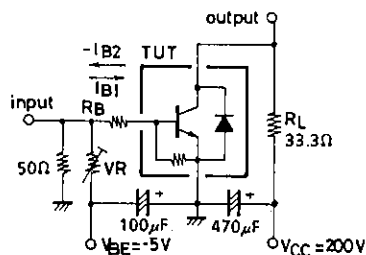
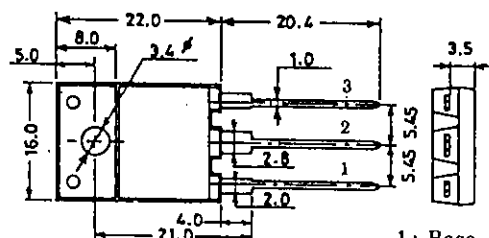
- High speed ($t_f = 100\text{ns}$).
- High breakdown voltage ($V_{CBO} = 1500\text{V}$).
- High reliability (Adoption of HVP process).
- On-chip damper diode.

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	8	A
Collector Current (Pulse)	I_{CP}	30	A
Collector Dissipation	P_C	70	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_{CES}	$V_{CE} = 1500\text{V}$			1.0	mA
	I_{CBO}	$V_{CB} = 800\text{V}$			10	μA
Collector Sustain Voltage	$V_{CEO(sus)}$	$I_C = 100\text{mA}, I_B = 0$	800			V
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4\text{V}$	40		130	mA
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = 6\text{A}, I_B = 1.2\text{A}$			5	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = 6\text{A}, I_B = 1.2\text{A}$			1.5	V
DC Current Gain	h_{FE1}	$V_{CE} = 5\text{V}, I_C = 1\text{A}$	8			
	h_{FE2}	$V_{CE} = 5\text{V}, I_C = 6\text{A}$	5		10	
Diode Forward Voltage	V_F	$I_{EC} = 8\text{A}$			2.0	V
Fall Time	t_f	$I_C = 6\text{A}, I_{B2} = 1.2\text{A}, I_{B2} = -2.4\text{A}$		0.1	0.3	μs

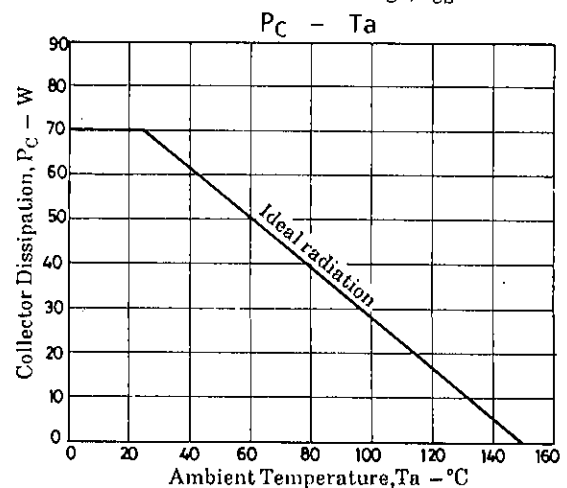
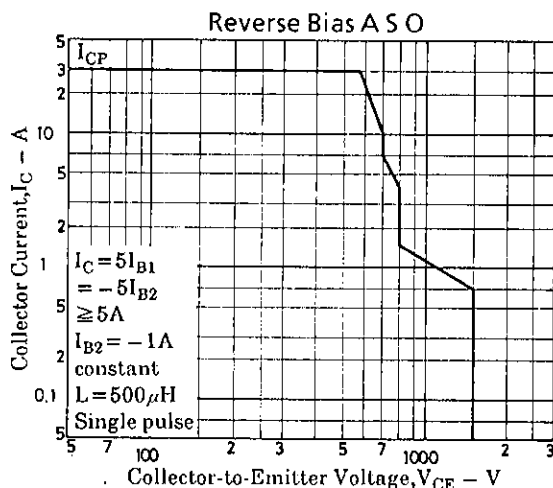
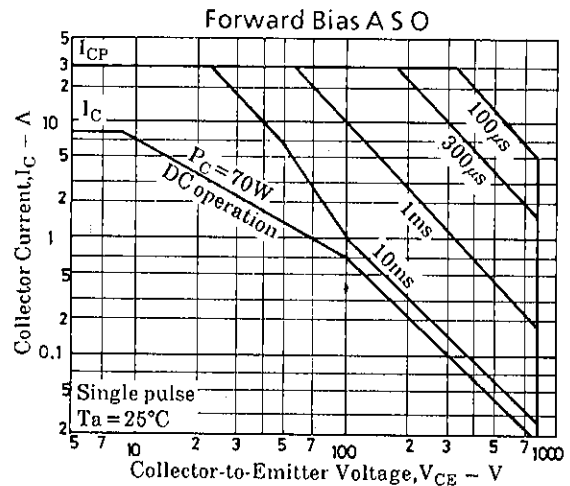
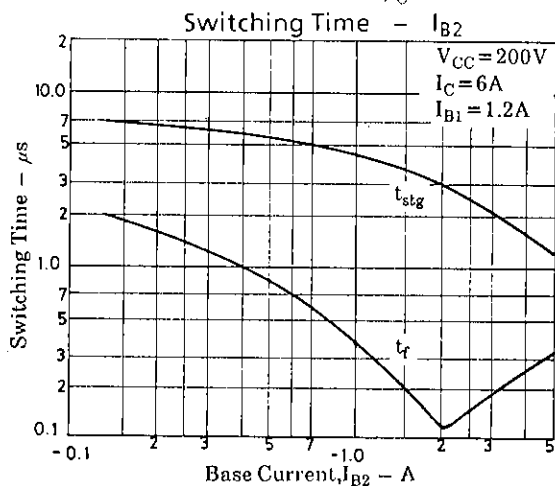
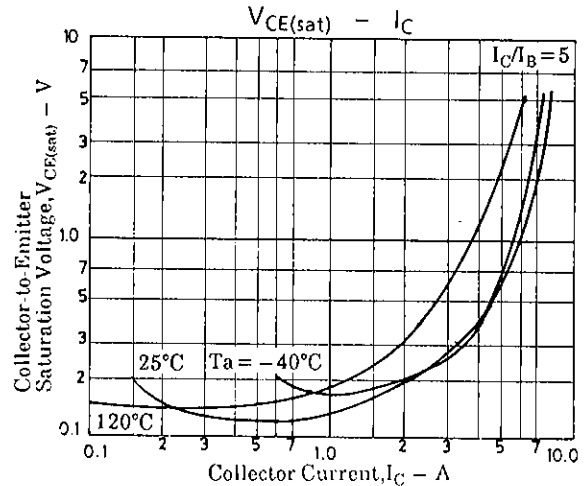
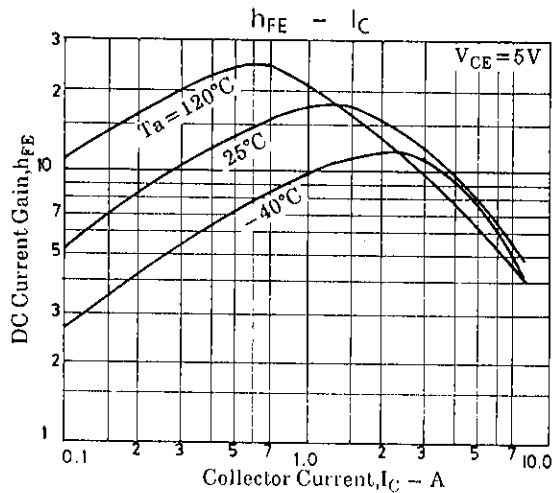
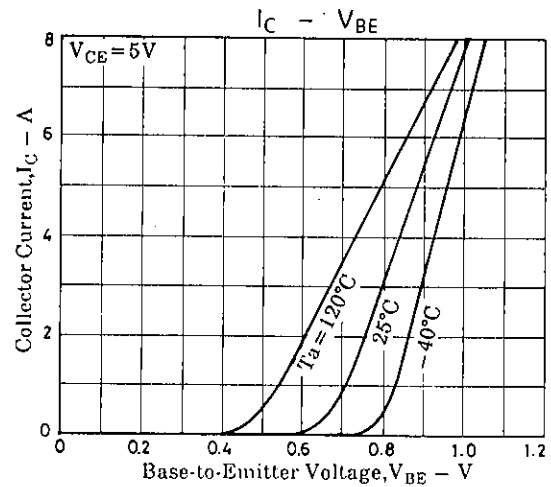
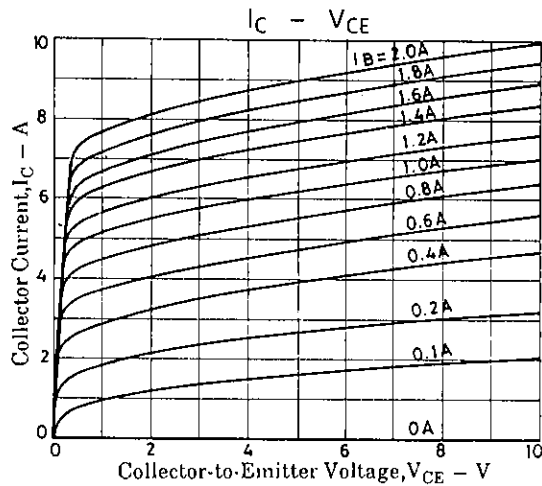
Switching Time Test CircuitPW = 20 μs , duty $\leq 1\%$ **Package Dimensions 2039B**
(unit: mm)1: Base
2: Collector
3: Emitter

SANYO: TO3PML

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