

SANYO	No.2963	2SC4293
NPN Triple Diffused Planar Silicon Transistor Very High-Definition Color Display Horizontal Deflection Output Applications		

Features

- High speed ($t_f = 300\text{ns max}$)
- High breakdown voltage ($V_{CB0} = 1500\text{V}$)
- High reliability (adoption of HVP process)
- Adoption of MBIT process
- On-chip damper diode

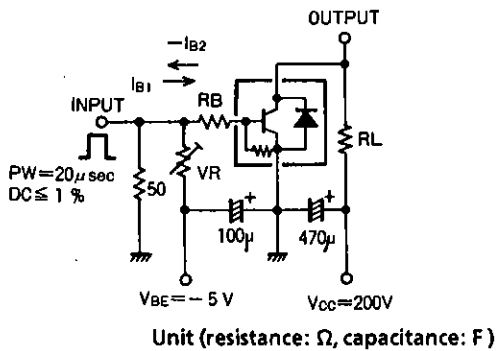
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Collector to Base Voltage	V_{CB0}	1500	V
Collector to Emitter Voltage	V_{CEO}	800	V
Emitter to Base Voltage	V_{EBO}	7	V
Collector Current	I_C	5	A
Peak Collector Current	i_{cp}	16	A
Collector Dissipation	P_C	3.0	W
$T_c = 25^\circ\text{C}$			
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

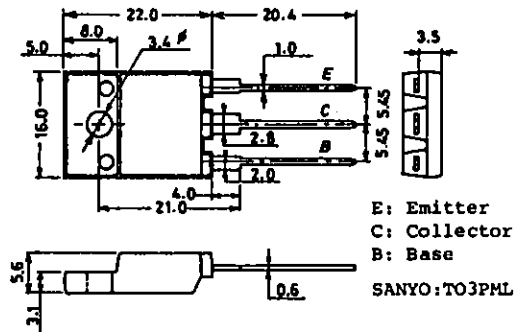
Electrical Characteristics at $T_a = 25^\circ\text{C}$

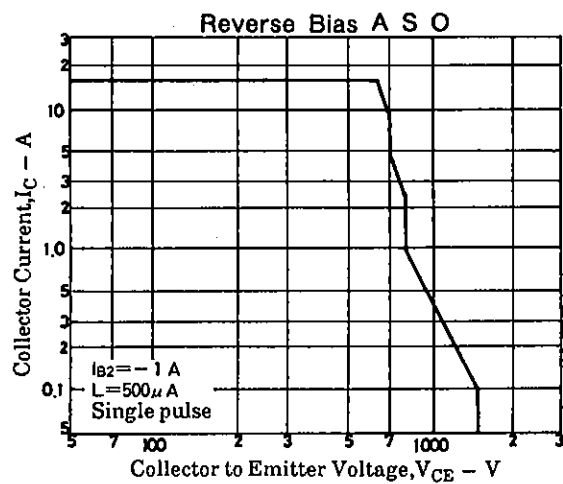
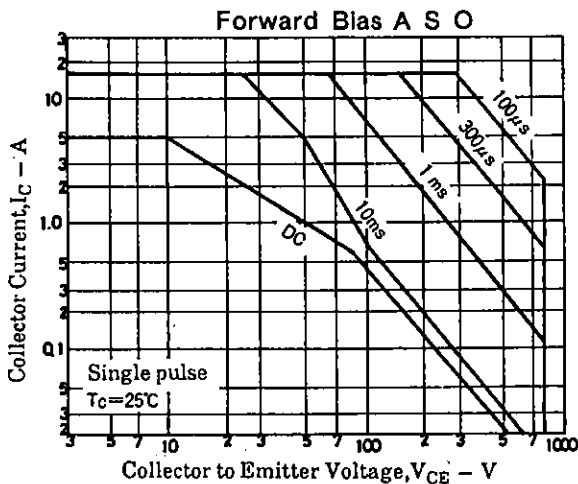
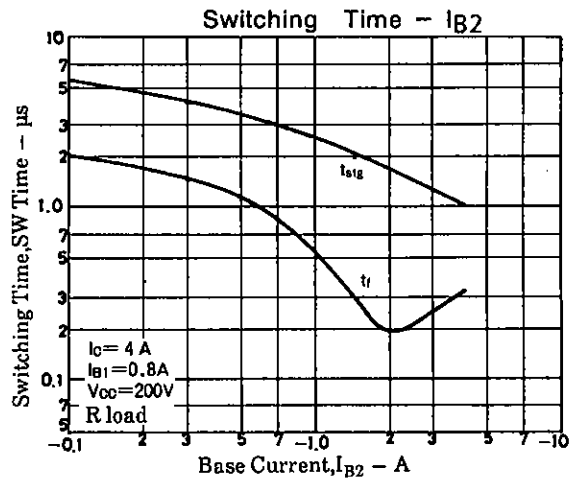
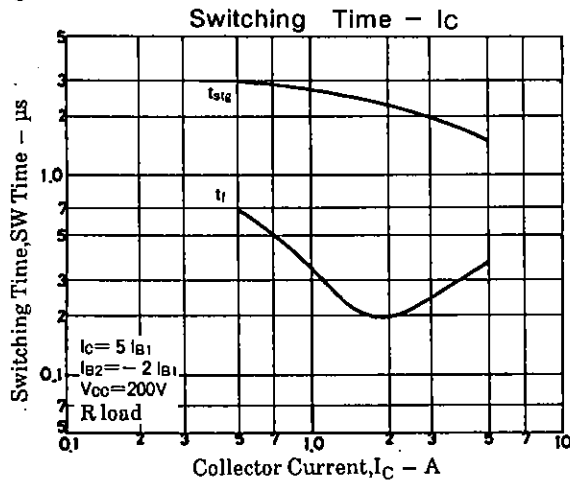
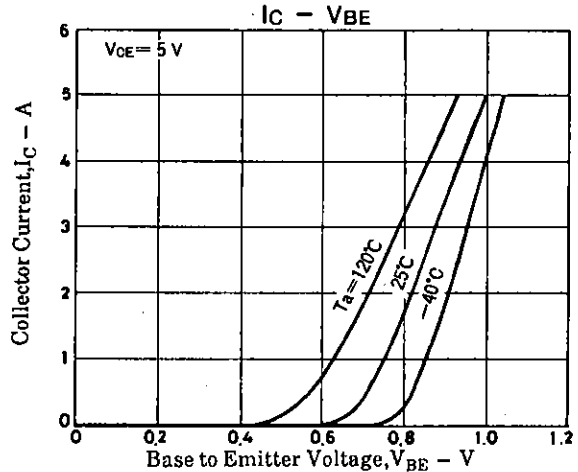
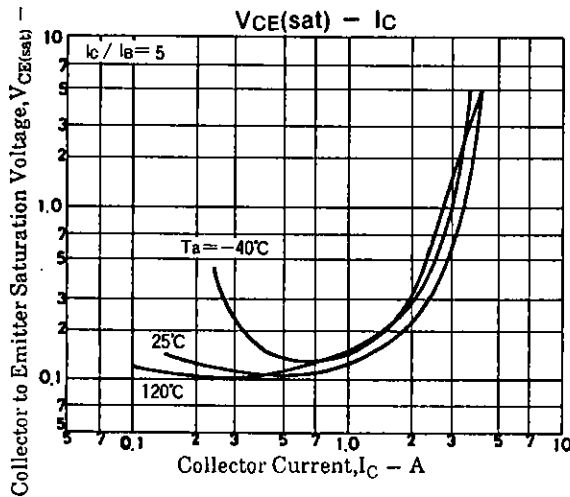
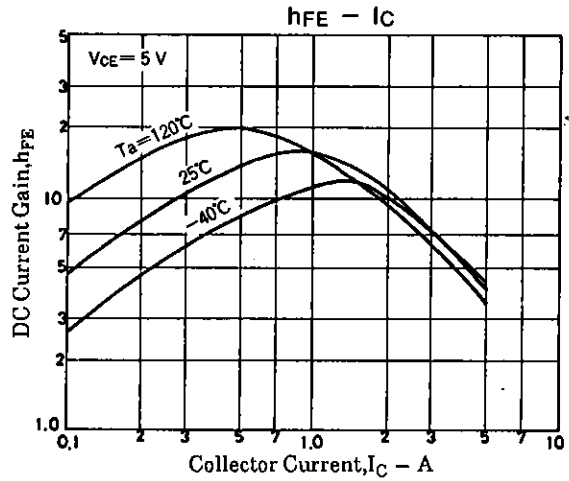
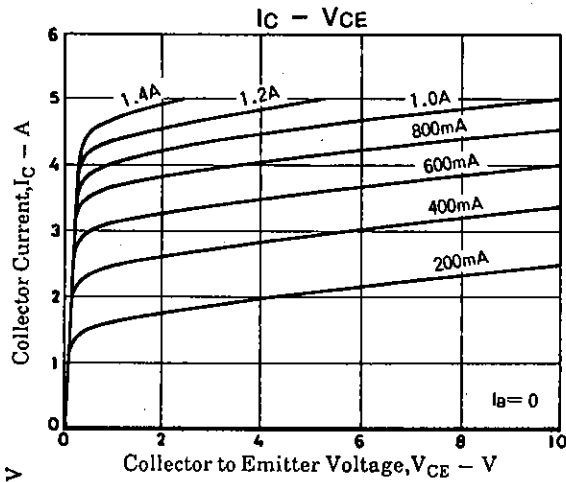
		min	typ	max	
Collector Cutoff Current	I_{CES}			1	mA
Collector Cutoff Current	I_{CBO}			10	μA
Collector Sustain Voltage	$V_{CEO(SUS)}$	800			V
Emitter Cutoff Current	I_{EBO}	40		130	mA
C-E Saturation Voltage	$V_{CE(sat)}$			5	V
B-E Saturation Voltage	$V_{BE(sat)}$			1.5	V
DC Current Gain	$h_{FE(1)}$	8			
	$h_{FE(2)}$	4		6	
Diode Forward Voltage	V_F			2.0	V
Storage Time	t_{stg}	$V_{CC} = 200\text{V}, I_C = 4\text{A},$ $I_{B1} = 0.8\text{A}, I_{B2} = -1.6\text{A}$		3.0	μs
Fall Time	t_f			0.3	μs

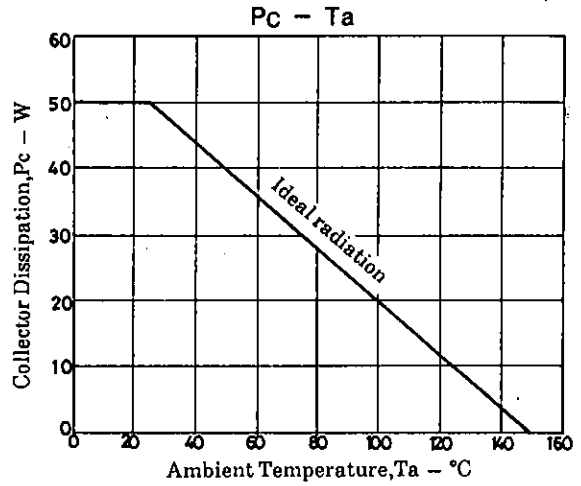
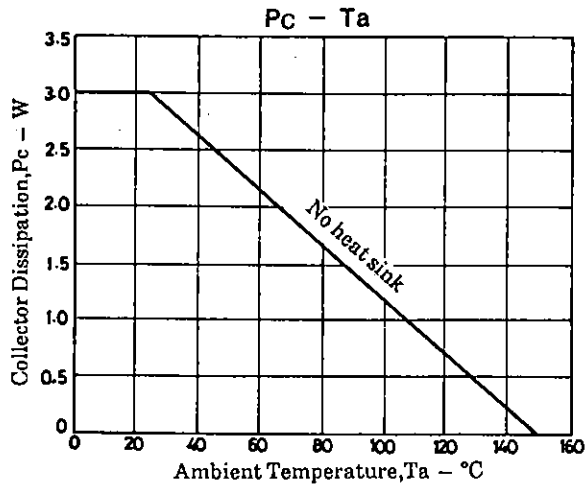
Switching Time Test Circuit



Package Dimensions 2039
(unit: mm)







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