

SANYO

No.2750

2SC4438

NPN Triple Diffused Planar Silicon Transistor

Very High-Definition Color Display
Horizontal Deflection Output Applications

Features

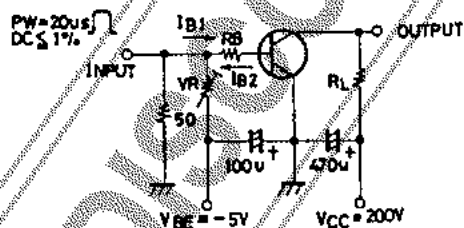
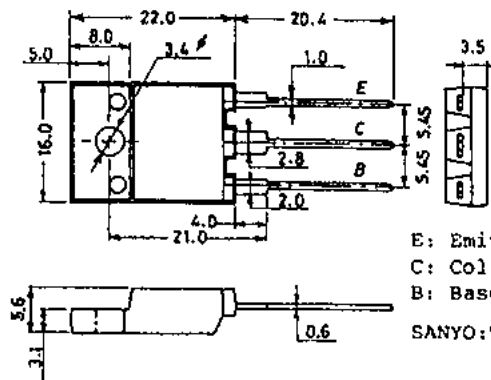
- . High speed ($t_r=300\text{ns}$ max).
- . High breakdown voltage ($V_{CBO}=1500\text{V}$).
- . High reliability (adoption of HVP process).
- . Adoption of MBIT process.

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}	7	V
Collector Current	I_C	6	A
Peak Collector Current	i_{cp}	16	A
Collector Dissipation	P_C	50	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
Collector Cutoff Current	I_{CBO}	$V_{CE}=800\text{V}, I_E=0$			10	μA
Collector Sustain Voltage	$V_{CEO(sus)}$	$I_C=100\text{mA}, I_B=0$	800			V
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			1	mA
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=5\text{A}, I_B=1.2\text{A}$			5	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C=5\text{A}, I_B=1.2\text{A}$			1.5	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5\text{V}, I_C=1.0\text{A}$	8			
	$h_{FE(2)}$	$V_{CE}=5\text{V}, I_C=5\text{A}$	4		6	
Diode Forward Voltage	V_F	$I_{EC}=6\text{A}$			2.0	V
Storage Time	t_{stg}	$I_C=5\text{A}, I_{B1}=1\text{A}, I_{B2}=-2\text{A}$			3.0	μs
Fall Time	t_f	$I_C=5\text{A}, I_{B1}=1\text{A}, I_{B2}=-2\text{A}$			0.3	μs

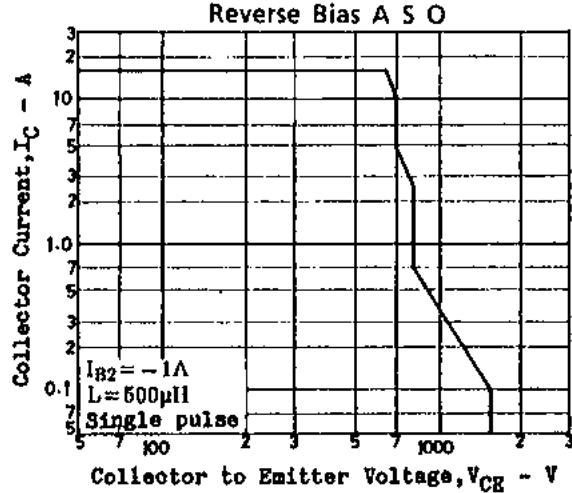
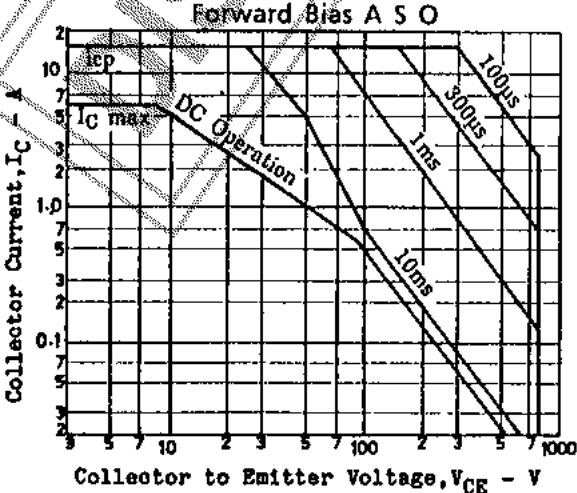
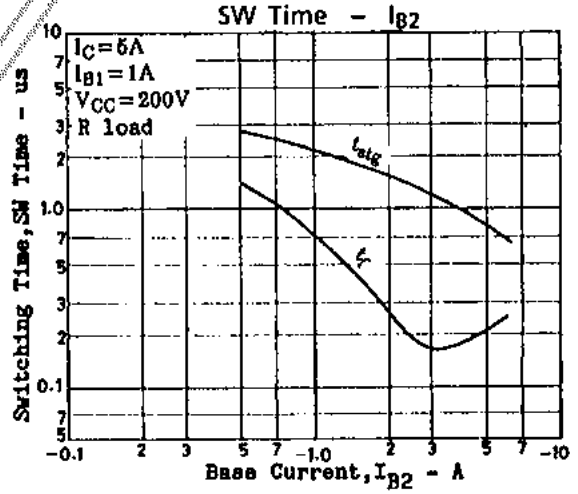
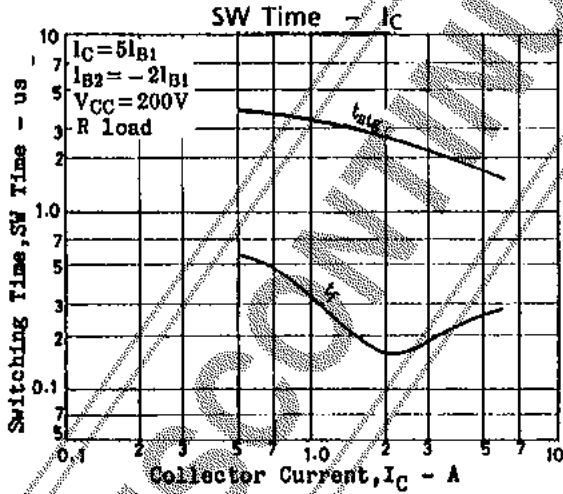
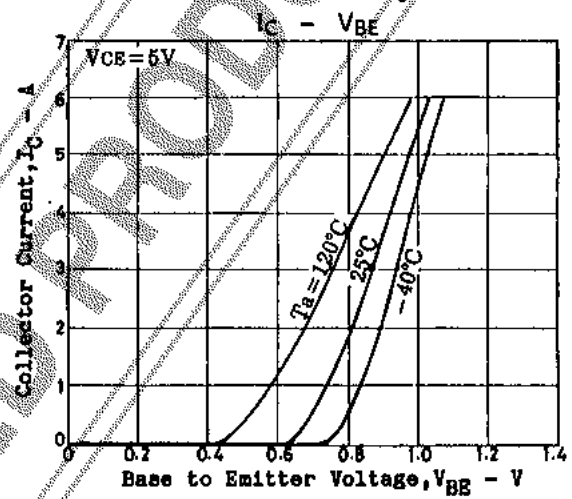
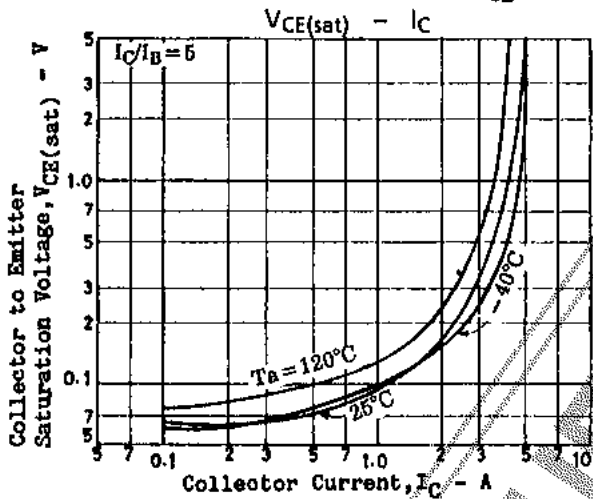
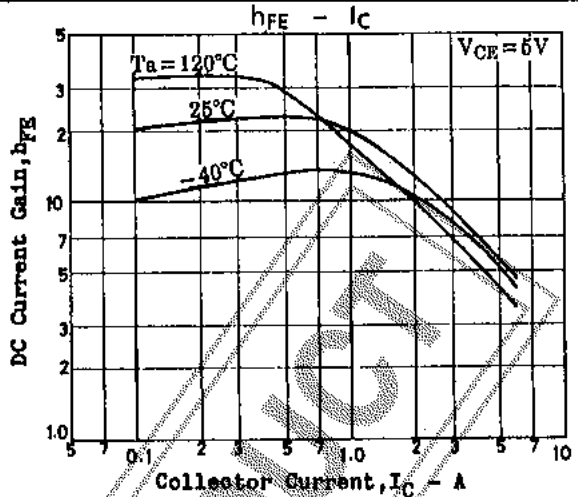
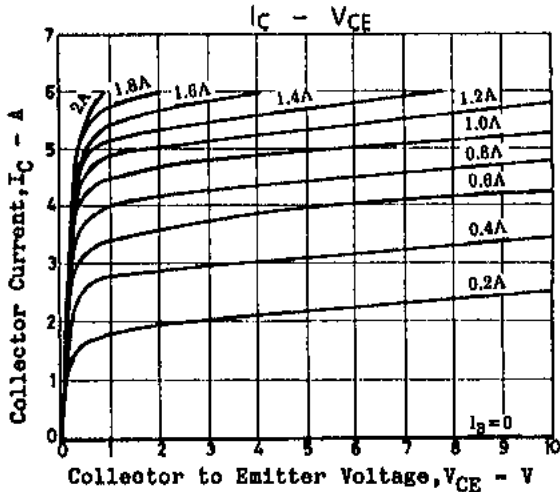
Switching Time Test Circuit**Case Outline 2039
(unit:mm)**

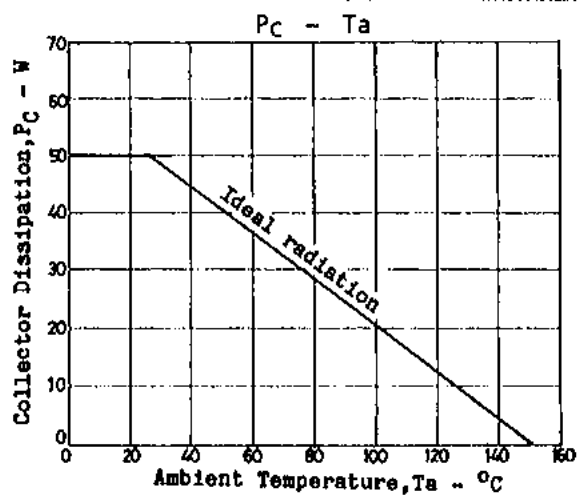
E: Emitter
C: Collector
B: Base
SANYO:TO3PML

Specifications and information herein are subject to change without notice.

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