

SANYO	No. 1939B	2SC3687
	NPN Triple Diffused Planar Silicon Transistor VERY HIGH-DEFINITION CRT DISPLAY HORIZONTAL DEFLECTION OUTPUT	

Applications

- . Very high-definition color display horizontal deflection output

Features

- . Fast speed (t_f typ=100ns).
- . High breakdown voltage ($V_{CBO}=1500V$).
- . High reliability (adoption of HVP process).
- . Adoption of MBIT process.

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

			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
Peak Collector Current	i_{cp}	25	A
Collector Dissipation	P_C	150	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-55 to +150	$^\circ C$

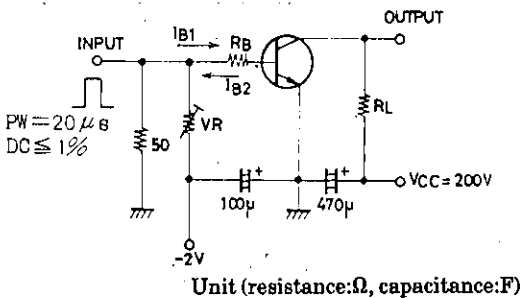
$T_c=25^\circ C$

Electrical Characteristics at $T_a=25^\circ C$

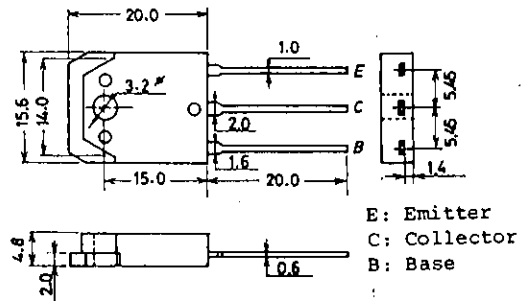
		min	typ	max	unit
Collector Cutoff Current	I_{CES}			1.0	mA
Collector Sustain Voltage	$V_{CEO(SUS)}$	800			V
Emitter Cutoff Current	I_{EBO}			1.0	mA
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$			5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$			1.5	V
DC Current Gain	h_{FE}		8		
Storage Time	t_{stg}			3.0	μs
Fall Time	t_f		0.1	0.2	μs

$V_{CE}=1500V, R_{BE}=0$
 $I_C=100mA, I_B=0$
 $V_{EB}=4V, I_C=0$
 $I_C=6A, I_B=1.5A$
 $I_C=6A, I_B=1.5A$
 $V_{CE}=5V, I_C=1.0A$
 $I_C=6A, I_{B1}=1.2A, I_{B2}=-2.4A$
 $I_C=6A, I_{B1}=1.2A, I_{B2}=-2.4A$

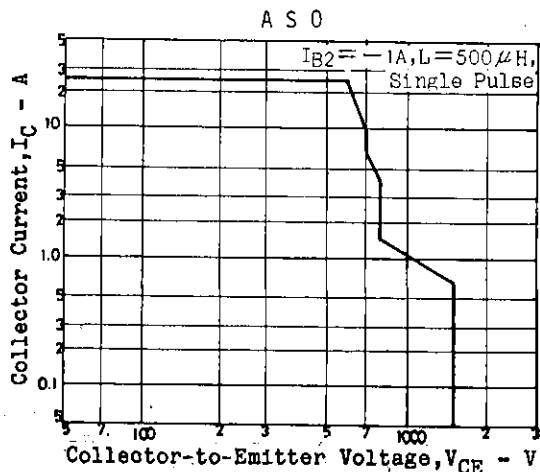
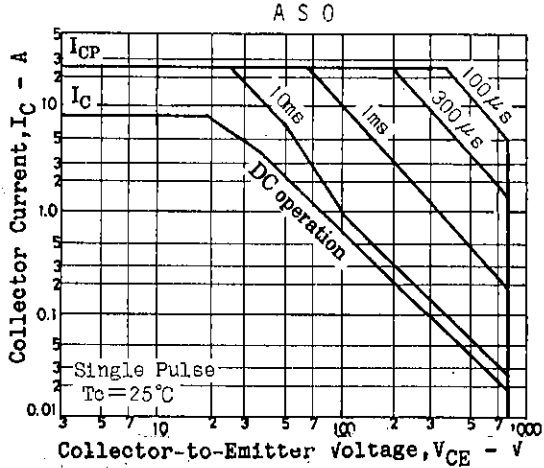
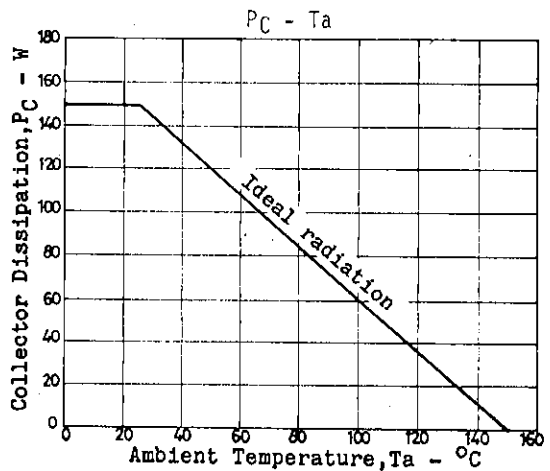
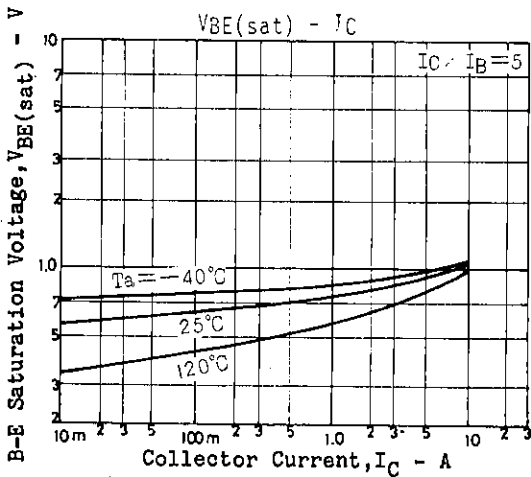
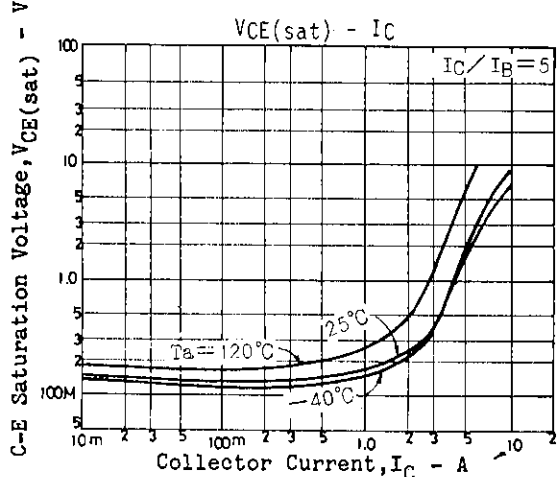
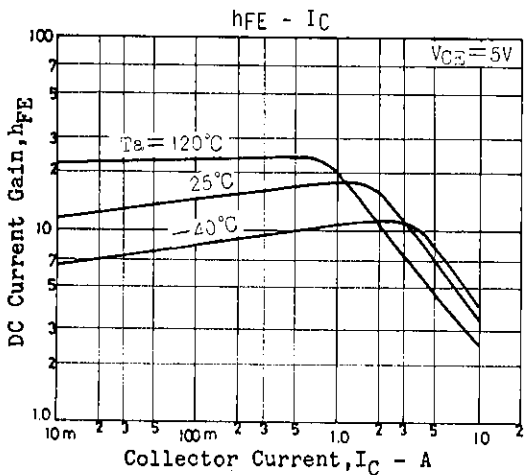
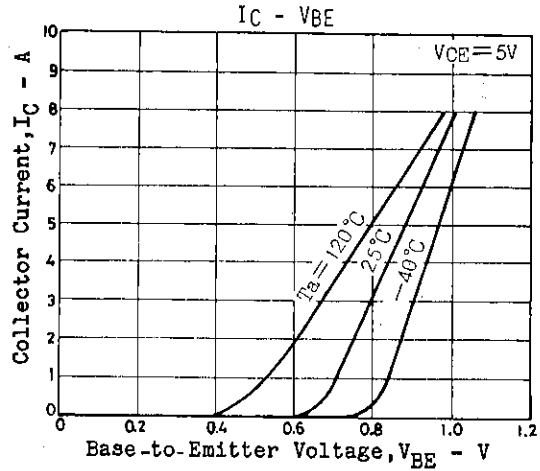
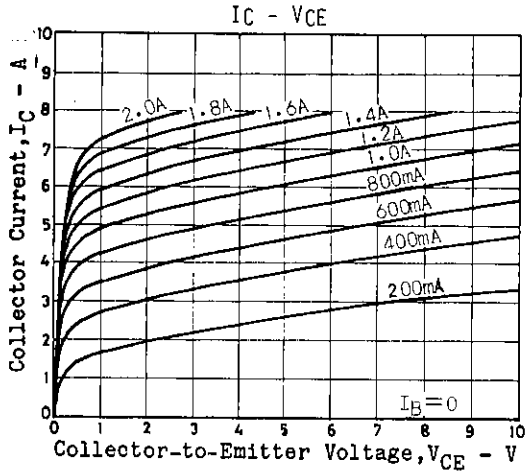
Switching Time Test Circuit



Package Dimensions 2022 (unit: mm)



SANYO: TO3PB



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