

SANYO	No.3794	2SC4441
NPN Triple Diffused Planar Silicon Transistor Very High-Definition Monocuro Display Horizontal Deflection Output Applications		

Features

- High reliability(Adoption of HVP process).
- High fast.
- High breakdown voltage.
- Wide ASO.
- Adoption of MBIT process.
- Micaless package facilitating mounting.

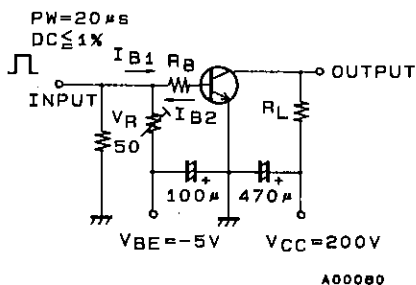
Absolute Maximum Ratings at Ta = 25°C

Collector-to-Base Voltage	V_{CB0}		600	V	unit
Collector-to-Emitter Voltage	V_{CE0}		400	V	
Emitter-to-Base Voltage	V_{EB0}		7	V	
Collector Current	I_C		10	A	
Peak Collector Current	i_{cp}	$PW \leq 300\mu s, \text{Duty Cycle} \leq 10\%$	20	A	
Collector Dissipation	P_C		2.0	W	
		$T_c = 25^\circ C$	35	W	
Junction Temperature	T_j		150	°C	
Storage Temperature	T_{stg}		-55 to +150	°C	

Electrical Characteristics at Ta = 25°C

			min	typ	max	
Collector Cutoff Current	I_{CB0}	$V_{CB} = 400V, I_E = 0$			10	μA
	I_{CES}	$V_{CE} = 600V$			0.5	mA
Collector Sustain Voltage	$V_{CE0(sus)}$	$I_C = 100mA, I_B = 0$	400			V
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$			1	mA
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = 6A, I_B = 1.2A$			0.8	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = 6A, I_B = 1.2A$			1.5	V
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 5V, I_C = 1.2A$	15			
	$h_{FE(2)}$	$V_{CE} = 5V, I_C = 6A$	10		20	
Gain-Bandwidth Product	f_T	$V_{CE} = 10V, I_C = 1.2A$		20		MHz
Storage Time	t_{stg}	$I_C = 7A, I_{B1} = 1.4A$ $I_{B2} = -2.8A, R_L = 28.6\Omega$ $V_{CC} = 200V$			3.0	μs
Fall Time	t_f				0.2	μs

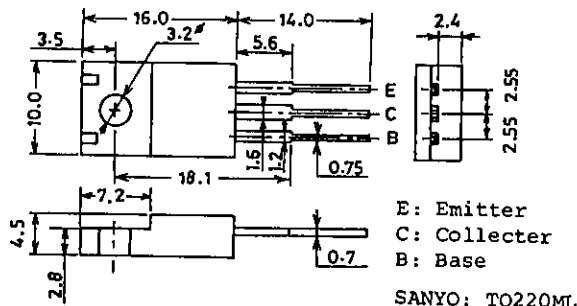
Switching Time Test Circuits



Unit (resistance:Ω, capacitance:F)

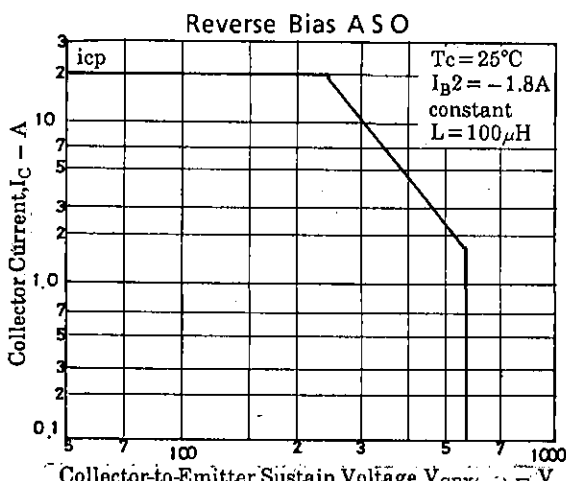
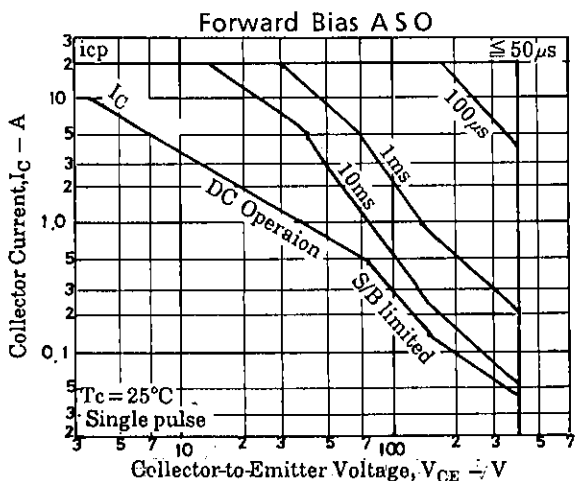
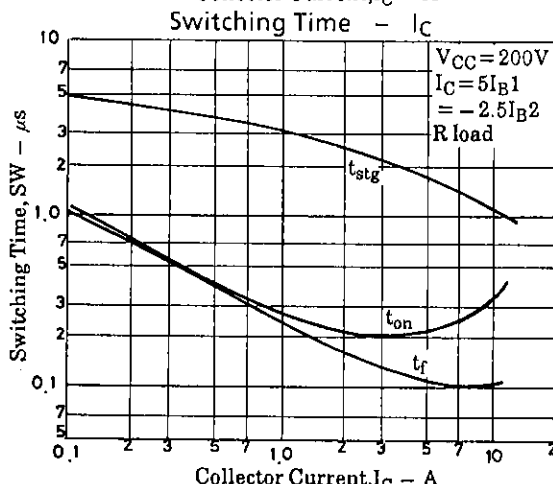
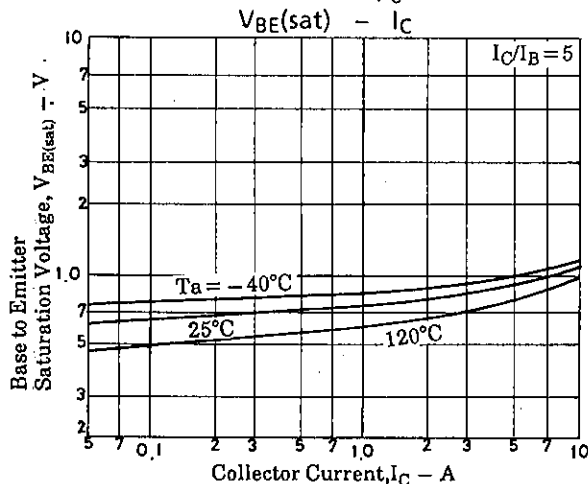
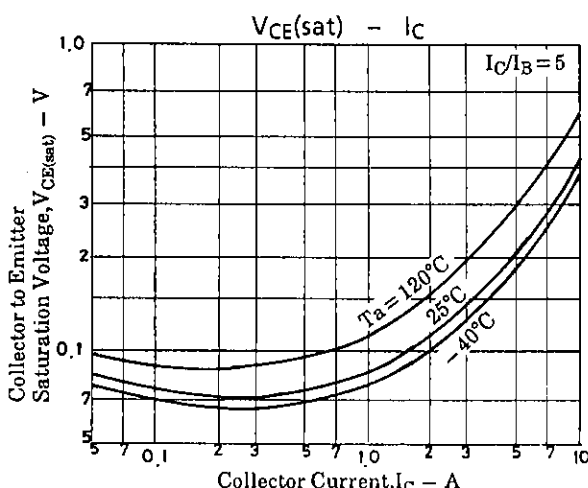
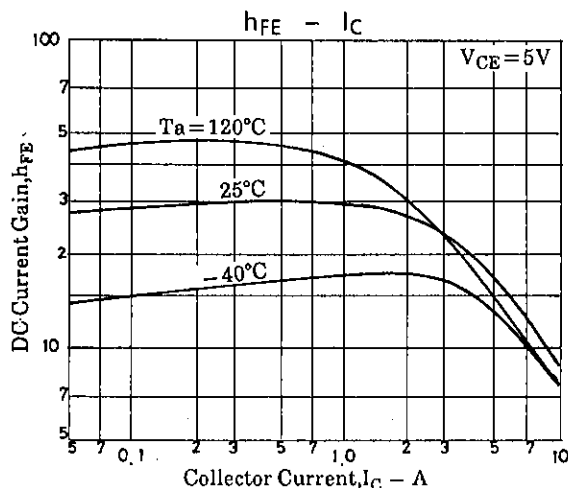
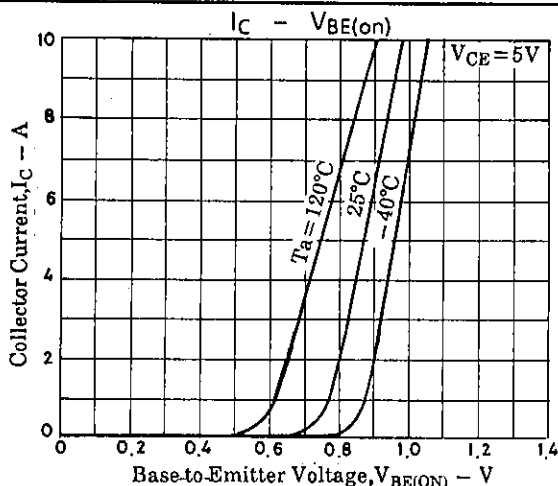
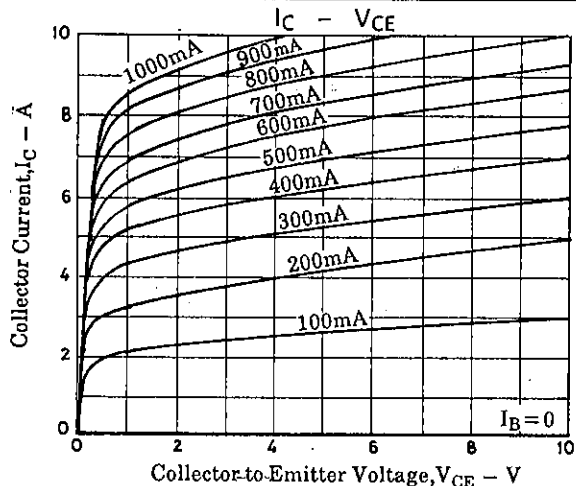
Package Dimensions

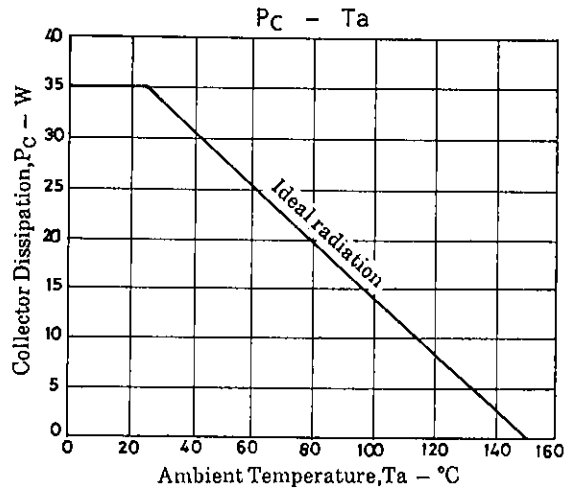
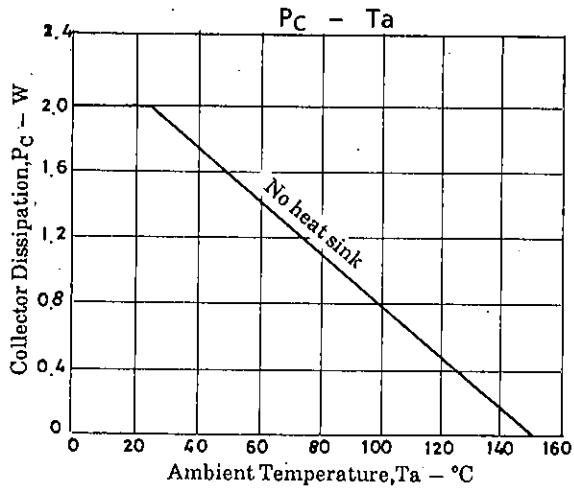
(unit: mm) 2041



E: Emitter
C: Collector
B: Base

SANYO: TO220ML





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