Ordering number: EN 2429

SANYO

No.2429

2SD1882

NPN Triple Diffused Planar Type
Silicon Transistor

COLOR TV HORIZONTAL DEFLECTION OUTPUT APPLICATIONS

Applications

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

Features

- High speed (t_f=100ns)
- high breakdown voltage (V_{CBO}=1500V)
- High reliability (adoption of HVP process)

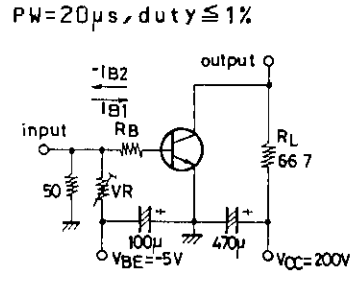
Absolute Maximum Ratings at Ta=25°C

			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	3	A
Peak Collector Current	i_{cp}	12	A
Collector Dissipation	P_C	50	W
Junction Temperature	Tj	150	°C
Storage Temperature	T_{stg}	-55 to +150	°C

Electrical Characteristics at Ta=25°C

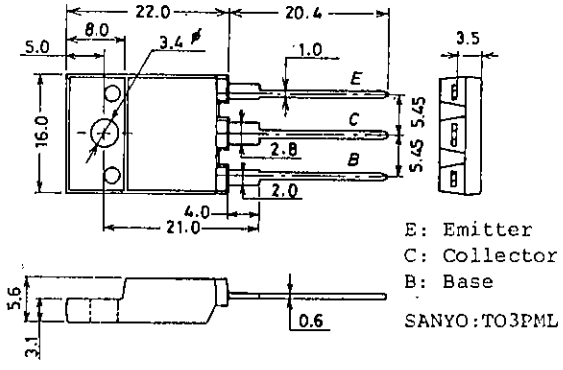
			min	typ	max	unit
Collector Cutoff Current	I_{CES}	V_{CE}=1500V			1.0	mA
	I_{CBO}	V_{CB}=800V			10	μA
Collector Sustain Voltage	$V_{CEO(sus)}$	I_C=100mA, I_B=0	800			V
Emitter Cutoff Current	I_{EBO}	V_{EB}=4V			1.0	mA
C-E Saturation Voltage	$V_{CE(sat)}$	I_C=2A, I_B=0.6A			5	V
B-E Saturation Voltage	$V_{BE(sat)}$	I_C=2A, I_B=0.6A			1.5	V
DC Current Gain	h_{FE1}	V_{CE}=5V, I_C=0.5A	8			
	h_{FE2}	V_{CE}=5V, I_C=2A	3		6	
Fall Time	t_f	I_C=3A, I_{B1}=0.8A, I_{B2}=-1.6A		0.1	0.3	μs

Switching Time Test Circuit



Unit (resistance:Ω, capacitance:F)

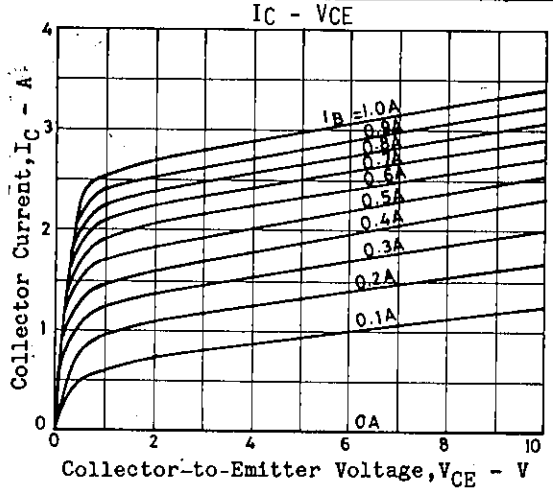
Package Dimensions 2039
(unit:mm)



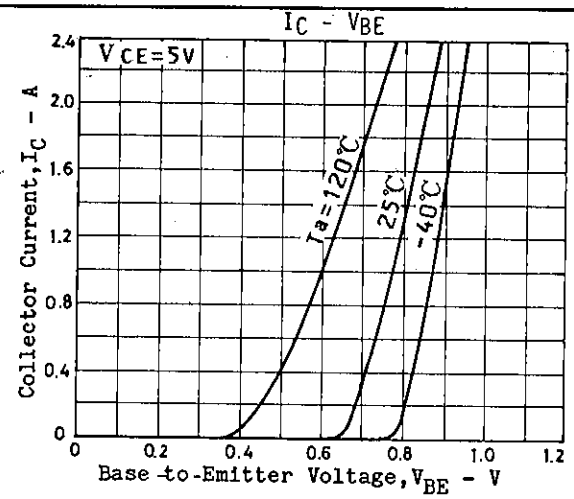
E: Emitter
C: Collector
B: Base
SANYO:TO3PML

SANYO Electric Co.,Ltd. Semiconductor Business Headquarters
TOKYO OFFICE Tokyo Bldg., 1-10,1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

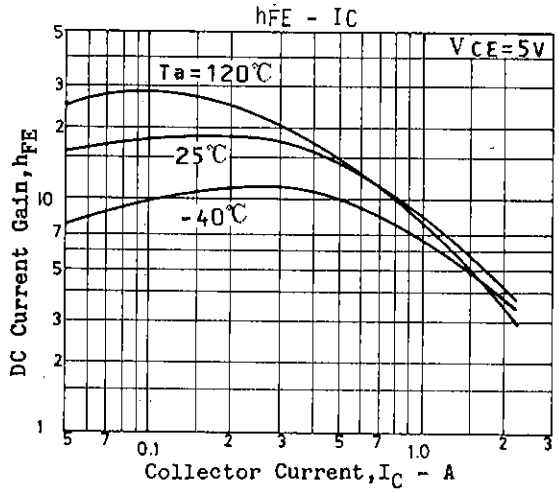
I_C - V_{CE}



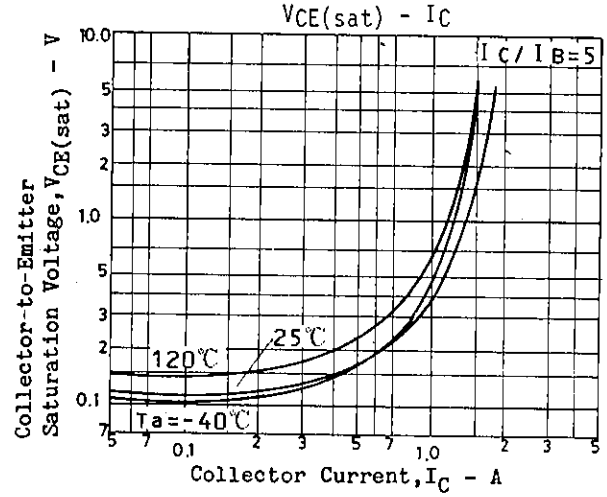
I_C - V_{BE}



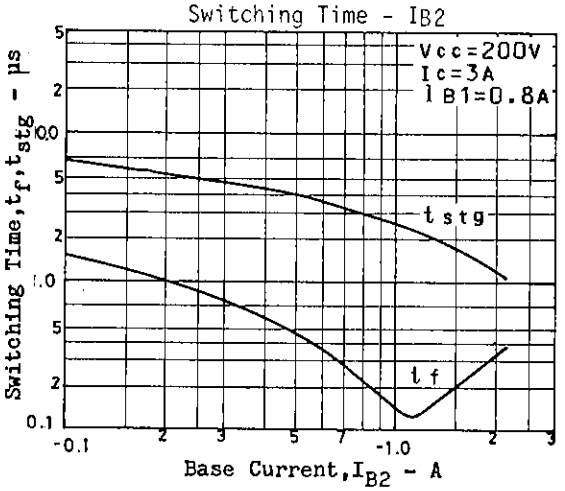
hFE - IC



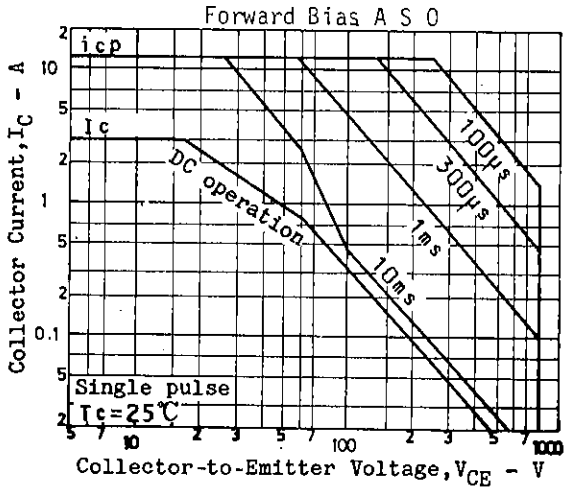
$V_{CE(sat)}$ - IC



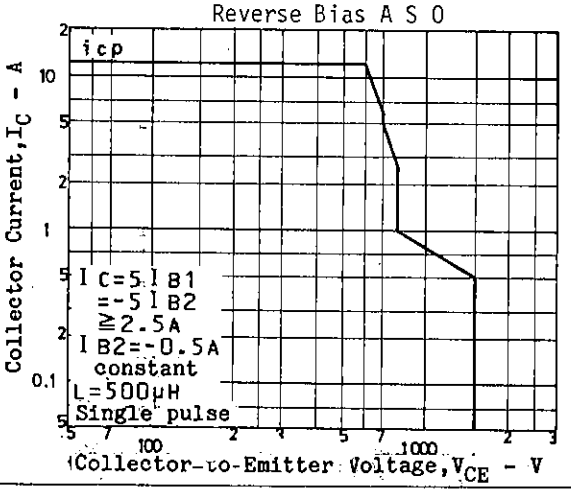
Switching Time - IB2



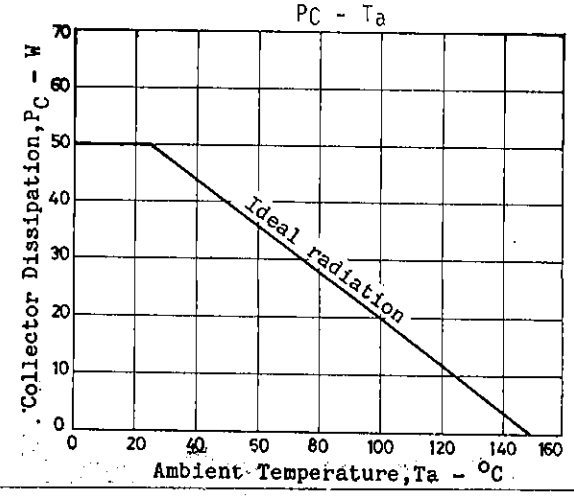
Forward Bias A S O



Reverse Bias A S O



PC - Ta



■ No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.

■ Anyone purchasing any products described or contained herein for an above-mentioned use shall:
① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.

■ Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.