



2003A

PNP Epitaxial Planar Silicon Transistor

Color TV Chroma Output, High-Voltage Driver Applications

Features

€3103A

- · High breakdown voltage
- · Small reverse transfer capacitance and excellent high frequency characteristics
- · Adoption of FBET process

Absolute Maximum Ratings at	$Ta = 25^{\circ}C$		unit
Collector to Base Voltage	V_{CBO}	_ 300	. v
Collector to Emitter Voltage	V_{CEO}	-300	v
Emitter to Base Voltage	V _{EBO}	-5	v
Collector Current	$I_{\mathbf{C}}$.	-100	mÅ
Peak Collector Current	i _{cp}	-200	mA
Collector Dissipation	$\mathbf{P}_{\mathbf{C}}^{\mathbf{r}}$	500	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55 to +150	°C
Floatnias Changets 111 m			

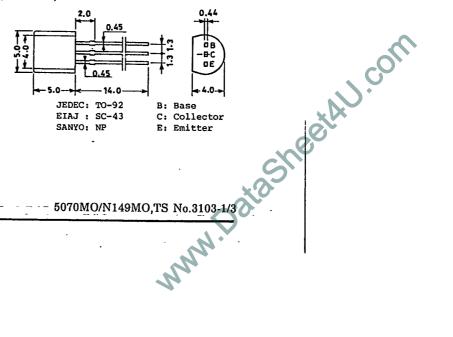
\mathbf{E}

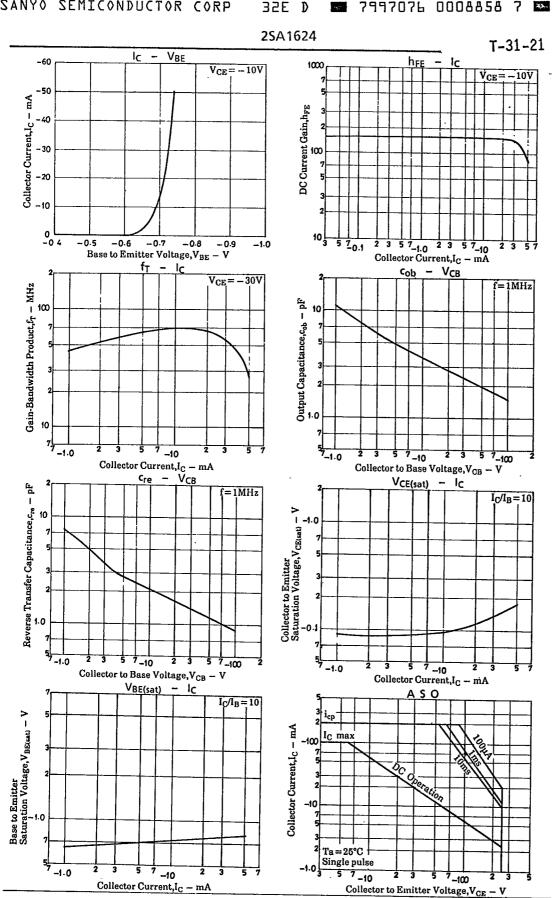
Electrical Characteristics at Ta	.=25°C		min typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = -200V_{IE} = 0$	131	-0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -4V_{IC} = 0$		-0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = -10V$, $I_{C} = -1mA$	60*	320	-
Gain-Bandwidth Product	fr	$V_{CE} = -30V, I_C = -10mA$	70		MHz
C-E Saturation Voltage	V _{CE(sat)}	$I_C = -10 \text{mA}, I_B = -1 \text{mA}$	10		MILLIZ
B-E Saturation Voltage				-0.6	V
	$V_{\mathrm{BE(sat)}}$	$I_C = -10 \text{mA}, I_B = -1 \text{mA}$		-1.0	V
C-B Breakdown Voltage	V _{(BR)CBO}	$I_{\rm C} = -10 \mu A, I_{\rm E} = 0$	-300		V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -1 \text{mA} \cdot R_{RE} = \infty$	-300		7,
E-B Breakdown Voltage		. 55			v
	$V_{(BR)EBO}$	$I_{\rm E} = -10 \mu A, I_{\rm C} = \infty$	– 5		V
Output Capacitance	c_{ob}	$V_{CB} = -30V, f = 1MHz$	2.4		pF
Reverse Transfer Capacitance	Cre	$V_{CB} = -30V, f = 1MHz$	1.5		•
•	-16	· CB SST,I— IMITE	1.0		рF

 $\ensuremath{\text{\#}}$: The 2SA1624 is classified by 1mA h_{FE} as follows :

60 D 120	100 E 200	160 F 320

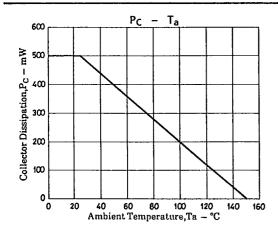
Case Outline 2003A (unit: mm)





2SA1624

T-31-21



CASE OUTLINES OF LEAD FORMED SMALL SIGNAL TRANSISTORS

- ●All of Sanyo lead formed small signal transistor case outlines are illustrated below.
- •All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- No marking is indicated.

