

DATA SHEET



PNP SILICON TRANSISTOR 2SA1626

DESCRIPTION The 2SA1626 is designed for general purpose amplifier and high speed switching applications.

- FEATURES**
- High Voltage.
 - High Speed Switching.
 - Low Collector Saturation Voltage.

ABSOLUTE MAXIMUM RATINGS

Maximum Temperatures

Storage Temperature -55 to +150 °C

Junction Temperature 150 °C Maximum

Maximum Power Dissipation ($T_a = 25^\circ\text{C}$)

Total Power Dissipation 1.0 W

Maximum Voltages and Currents ($T_a = 25^\circ\text{C}$)

V_{CBO} Collector to Base Voltage -400 V

V_{CEO} Collector to Emitter Voltage -400 V

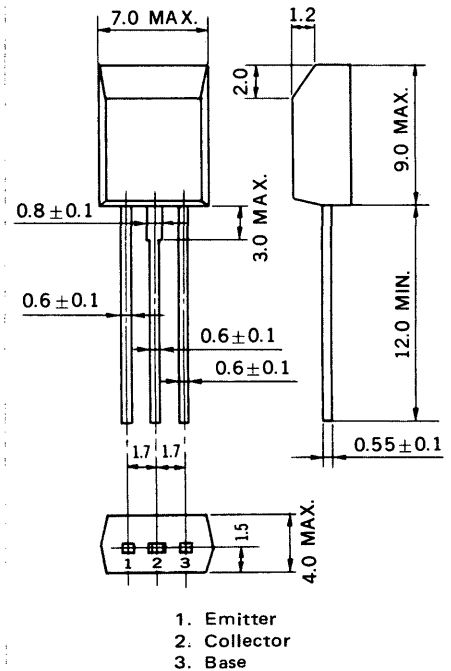
V_{EBO} Emitter to Base Voltage -7.0 V

I_C Collector Current (DC) -2.0 A

I_C Collector Current (pulse)* -4.0 A

* $PW \leq 10$ ms, Duty Cycle ≤ 50 %

PACKAGE DIMENSIONS
in millimeters



ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

SYMBOL	CHARACTERISTIC	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
h_{FE1}^{**}	DC Current Gain	40	60	120	—	$V_{CE} = -5.0$ V, $I_C = -0.1$ A
h_{FE2}^{**}	DC Current Gain	6	22		—	$V_{CE} = -5.0$ V, $I_C = -1.0$ A
f_T	Gain Bandwidth Product	10	40		MHz	$V_{CE} = -10$ V, $I_E = 0.1$ A
C_{ob}	Output Capacitance		30	40	pF	$V_{CB} = -10$ V, $I_E = 0$, $f = 1.0$ MHz
I_{CBO}	Collector Cutoff Current			-10	μ A	$V_{CB} = -400$ V, $I_E = 0$
I_{EBO}	Emitter Cutoff Current			-10	μ A	$V_{EB} = -5.0$ V, $I_C = 0$
$V_{CE(sat)}^{**}$	Collector Saturation Voltage		-0.25	-0.5	V	$I_C = -0.5$ A, $I_B = -0.1$ A
$V_{BE(sat)}^{**}$	Base Saturation Voltage		-0.85	-1.2	V	$I_C = -0.5$ A, $I_B = -0.1$ A
t_{on}	Turn On Time		0.03	0.5	μ s	$I_C = -1.0$ A, $R_L = 150 \Omega$ $I_{B1} = -I_{B2} = -0.2$ A $V_{CC} = -150$ V
t_{stg}	Storage Time		1.4	2.0	μ s	
t_f	Fall Time		0.1	0.7	μ s	

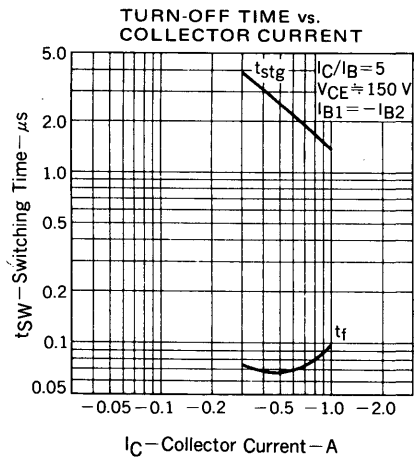
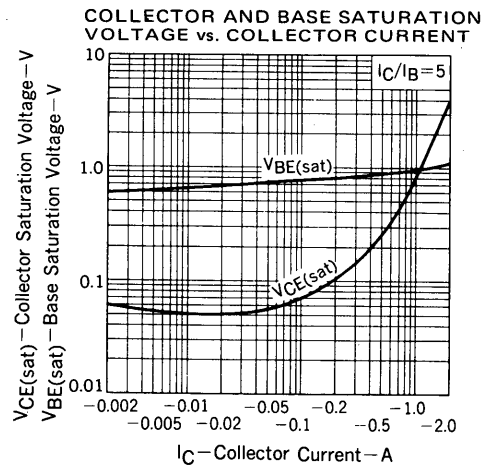
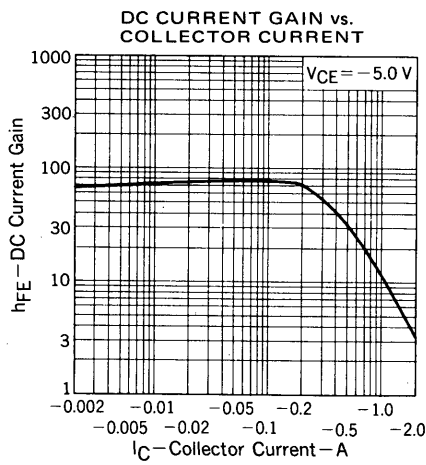
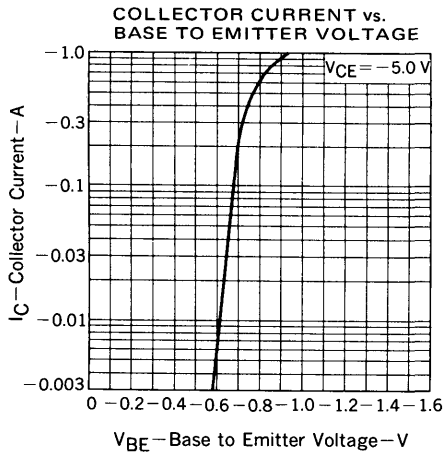
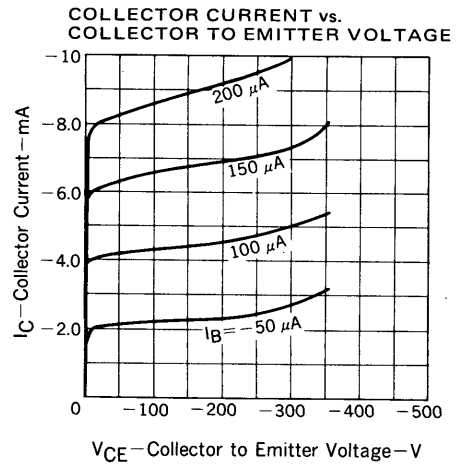
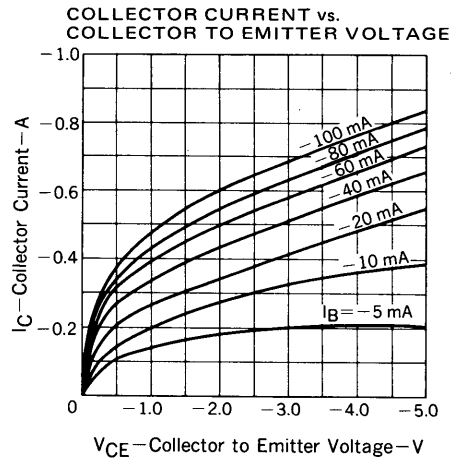
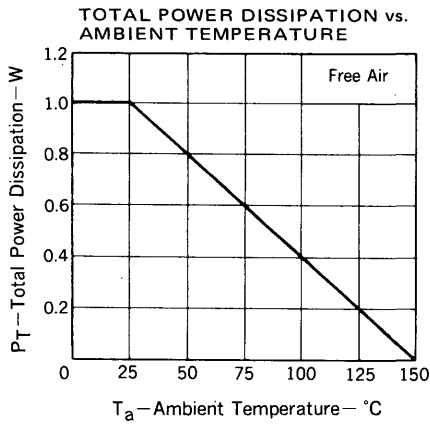
** Pulsed $PW \leq 350 \mu$ s, Duty Cycle ≤ 2 %

Classification of h_{FE1}

Rank	L	K
Range	40 to 80	60 to 120

Test Conditions: $V_{CE} = -5.0$ V, $I_C = -0.1$ A

TYPICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.