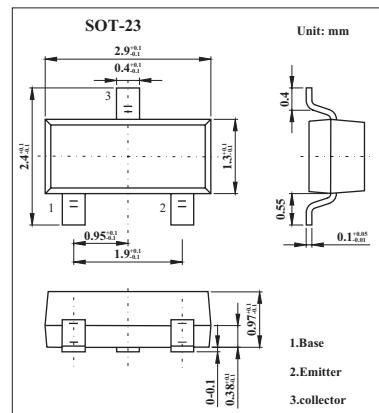


Silicon Transistor**2SA1226****■ Features**

- High gain bandwidth product
- Low output capacitance
- Low noise

**■ Absolute Maximum Ratings Ta = 25°C**

Parameter	Symbol	Rating	Unit
Collector-base voltage ($R_{BE} = \infty$)	V_{CBO}	-40	V
Collector-emitter voltage	V_{CEO}	-40	V
Emitter-base voltage	V_{EBO}	-5.0	V
Collector current - continuous	I_C	-30	mA
Total power dissipation at 25°C ambient temperature	P_T	200	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -40V$, $I_E = 0$			-0.1	µA
Emitter cutoff current	I_{EBO}	$V_{EB} = -4.0V$, $I_C = 0$			-0.1	µA
DC current gain	h_{FE}	$V_{CE} = -10V$, $I_C = -1.0mA$	40	90	180	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -10mA$, $I_B = -1.0mA$		-0.09	-0.3	V
Base-emitter vVoltage	V_{BE}	$V_{CE} = -10V$, $I_C = -10mA$	-0.67	-0.72		V
Gain bandwidth product	f_T	$V_{CE} = -10V$, $I_E = 1.0mA$	250	400		MHz
Output capacitance	C_{ob}	$V_{CB} = -10V$, $I_E = 0$, $f = 1.0MHz$		1.1	2.0	pF
Noise figure	NF	$V_{CE} = -10V$, $I_C = -1.0mA$, $R_G = 500\Omega$, $f = 1.0MHz$		3.5		dB

■ hFE Classification

Marking	E2	E3	E4
hFE	40~80	60~120	90~180