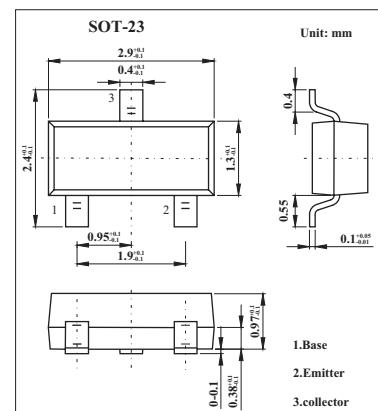


PNP Epitaxial Planar Silicon Transistors

2SB1527

■ Features

- Low saturation voltage.
- Contains a diode between collector and emitter.
- Contains a bias resistor between base and emitter.
- Large current capacity.
- Compact package making it easy to realize highdensity, small-sized hybrid ICs.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-20	V
Collector-emitter voltage	V _{CEO}	-15	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _C	-0.8	A
Collector current (pulse)	I _{CP}	-2	A
Collector dissipation	P _C	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} = -15V , I _E = 0			-1	μA
DC current Gain	h _{FE}	V _{CE} = -2V , I _C = -0.5A	70			
Gain bandwidth product	f _T	V _{CE} = -2V , I _C = -0.5A	250			MHz
Output capacitance	C _{ob}	V _{CB} = -10V , f = 1MHz	30			pF
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -500mA , I _B = -10mA	-0.2	-0.4		V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -500mA , I _B = -10mA	-.095	-1.3		V
Collector-to-base breakdown voltage	V _{(BR)CBO}	I _C = -10μA , I _E = 0	-20			V
Collector-to-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA , R _{BE} = ∞	-15			V
Diode forward voltage	V _F	I _F =-0.5A			-1.5	V
Base-emitter resistance	R _{BE}			1		KΩ

■ Marking

Marking	NS
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