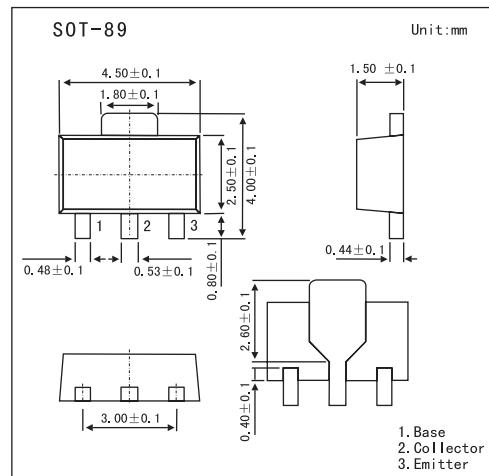


PNP Epitaxial Planar Silicon Transistors

2SD1618

■ Features

- Low collector-to-emitter saturation voltage.
- Very small size making it easy to provide high density,



■ 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	0.7	A
Collector current (pulse)	I _{CP}	1.5	A
Collector dissipation	P _C	500	mW
Junction temperature	P _C *	1.3	W
	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

* Mounted on ceramic board (250mm² × 0.8mm)

2SD1618

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	I _{CBO}	V _{CB} = 15V , I _E = 0			0.1	μA
Emitter cutoff current	I _{EBO}	V _{CB} = 4V , I _E = 0			0.1	μA
DC current Gain	h _{FE}	V _{CE} = 2V , I _C = 50mA	140		560	
		V _{CE} = 2V , I _C = 500mA	60			
Gain bandwidth product	f _T	V _{CE} = 10V , I _C = 50mA		250		MHz
Collector-emitter saturation voltage	V _{CESAT}	I _C = 5mA , I _B = 0.5mA		10	25	mV
		I _C = 100mA , I _B = 10mA		30	80	mV
Base-emitter saturation voltage	V _{BESAT}	I _C = 100mA , I _B = 10mA		0.8	1.2	V
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 10μA , I _E = 0	20			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA , R _{BE} = ∞	15			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 10μA , I _C = 0	5			V
Output capacitance	C _{ob}	V _{CB} = 10V , f = 1MHz		8		pF

■ hFE Classification

Marking	DA		
	S	T	U
hFE	140~280	200~400	280~560