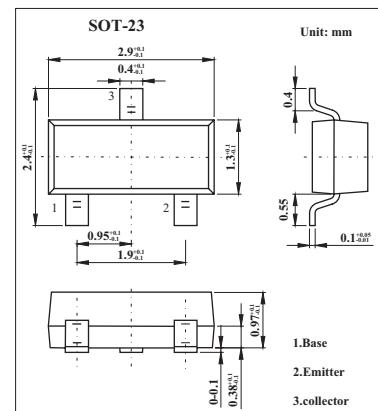


NPN Epitaxial Planar Silicon Transistors

2SD1935

■ Features

- Large current capacity.
- Low collector to emitter saturation voltage.
- Very small-sized package permitting sets to be made smaller and slimer.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	15	V
Collector-emitter voltage	V _{C EO}	15	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	0.8	A
Collector current (pulse)	I _{CP}	3	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} = 12V , I _E = 0			100	nA
Emitter cutoff current	I _{EBO}	V _{EB} = 4V , I _C = 0			100	nA
DC current Gain	h _{FE}	V _{CE} = 2V , I _C = 50mA	135		900	
Gain bandwidth product	f _T	V _{CE} = 2V , I _C = 50mA		200		MHz
Output capacitance	C _{ob}	V _{CB} = 10V , f = 1MHz		10		pF
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 5mA , I _B = 0.5mA	10	25		mV
	V _{CE(sat)}	I _C = 400mA , I _B = 20mA	100	200		mV
Base-to-emitter saturation voltage	V _{BE(sat)}	I _C = 400mA , I _B = 20mA		0.9	1.2	V
Collector-to-base breakdown voltage	V _{(BR)CBO}	I _C = 10μA , I _E = 0	15			V
Collector-to-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA , R _{BE} = ∞	15			V
Emitter-to-base breakdown voltage	V _{(BR)EBO}	I _E = 10μA , I _C = 0	5			V

■ h_{FE} Classification

Marking	CT			
Rank	5	6	7	8
h _{FE}	135~270	200~400	300~600	450~900