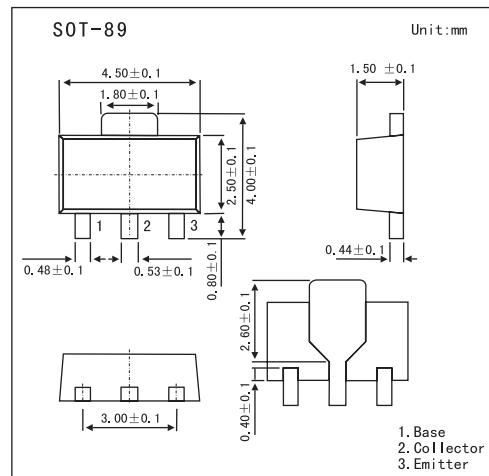


Silicon NPN epitaxial planer type

2SD968, 2SD968A

■ Features

- High collector to emitter voltage V_{C EO}.
- Large collector power dissipation P_C.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector to base voltage 2SD968 2SD968A	V _{CBO}	100	V
		120	V
Collector to emitter voltage 2SD968 2SD968A	V _{C EO}	100	V
		120	V
Emitter to base voltage	V _{EBO}	5	V
Peak collector current	I _{CP}	1	A
Collector current	I _C	0.5	A
Collector power dissipation	P _C *	1	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to 150	°C

* Printed circuit board: Copper foil area of 1cm² or more, and the board thickness of 1.7mm

for the collector portion

2SD968, 2SD968A**■ Electrical Characteristics Ta = 25°C**

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector to emitter voltage 2SD968	V _{C EO}	I _C = 100µA, I _B = 0	100			V
2SD968A	V _{C EO}	I _C = 100µA, I _B = 0	120			V
Emitter to base voltage	V _{E BO}	I _E = 10µA, I _C = 0	5			V
Forward current transfer ratio	h _{FE}	V _{C E} = 10V, I _C = 150mA*	90		220	
		V _{C E} = 5V, I _C = 500mA*	50	100		
Collector to emitter saturation voltage	V _{C E(sat)}	I _C = 500mA, I _B = 50mA*		0.2	0.6	V
Base to emitter saturation voltage	V _{B E(sat)}	I _C = 500mA, I _B = 50mA*		0.85	1.2	V
Transition frequency	f _T	V _{C B} = 10V, I _E = -50mA, f = 200MHz		120		MHz
Collector output capacitance	C _{ob}	V _{C B} = 10V, I _E = 0, f = 1MHz		11	20	pF

* Pulse measurement

■ hFE Classification

Marking Symbol	2SD968	WQ	WR
	2SD968A	VQ	VR
Rank	Q	R	
hFE	90~155	130~220	