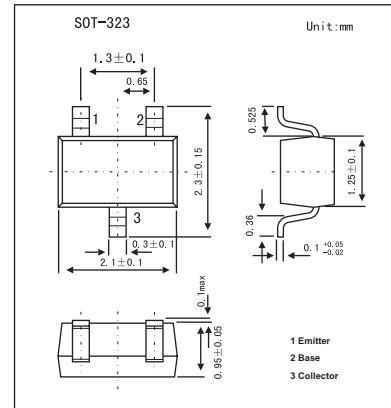


Silicon NPN Epitaxial Planar Type

2SC4562



■ Features

- High transition frequency f_T .
- Small collector output capacitance C_{ob} .

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CB0}	50	V
Collector-emitter voltage	V_{CE0}	50	V
Emitter-base voltage	V_{EB0}	5	V
Collector current	I_C	50	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base voltage	V_{CB0}	$I_C = 10 \mu\text{A}, I_E = 0$	50			V
Collector-emitter voltage	V_{CE0}	$I_C = 1 \text{ mA}, I_B = 0$	50			V
Emitter-base voltage	V_{EB0}	$I_E = 10 \mu\text{A}, I_C = 0$	5			V
Collector cutoff current	I_{CB0}	$V_{CB} = 10 \text{ V}, I_E = 0$			0.1	μA
Emitter cutoff current	I_{EB0}	$V_{CE} = 10 \text{ V}, I_B = 0$			100	μA
Forward current transfer ratio	h_{FE}	$V_{CE} = 10 \text{ V}, I_C = 2 \text{ mA}$	200		500	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 10 \text{ mA}, I_B = 1 \text{ mA}$		0.06	0.30	V
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$		250		MHz
Collector output capacitance	C_{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		1.5		pF

■ h_{FE} Classification

Marking	AM	
	Q	R
h_{FE}	200~400	250~500