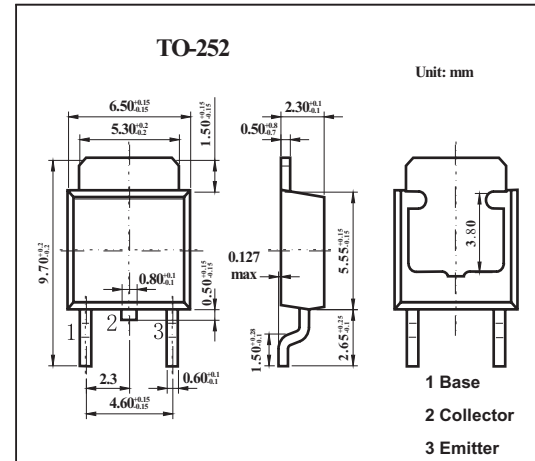


## Silicon PNP Epitaxial Planar Type

## 2SB1574

## ■ Features

- Possible to solder radiation fin directly to printed circuit board.
- Type with universal characteristics.
- High collector-base voltage (Emitter open)  $V_{CB0}$ .
- High collector-emitter voltage (Base open)  $V_{CE0}$ .
- Large collector current  $I_C$ .

■ 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	$I_C$	-2	A
Peak collector current	$I_{CP}$	-3	A
Collector power dissipation	$P_C$	10	W
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-base cutoff current	$I_{CBO}$	$V_{CB} = -10 \text{ V}, I_E = 0$			-0.1	$\mu\text{A}$
Forward current transfer ratio	$h_{FE}$	$V_{CE} = -2 \text{ V}, I_C = -200 \text{ mA}$	120		340	V
		$V_{CE} = -2 \text{ V}, I_C = -1 \text{ A}$	60			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -1 \text{ A}, I_B = -50 \text{ mA}$		-0.2	-0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -1 \text{ A}, I_B = -50 \text{ mA}$		-0.85	-1.2	V
Transition frequency	$f_T$	$V_{CE} = -10 \text{ V}, I_C = -50 \text{ mA}, f = 200 \text{ MHz}$		80		MHz
Collector output capacitance	$C_{ob}$	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1.0 \text{ MHz}$		45	60	pF

■  $h_{FE}$  Classification

Rank	R	S
$h_{FE}$	120~240	170~340