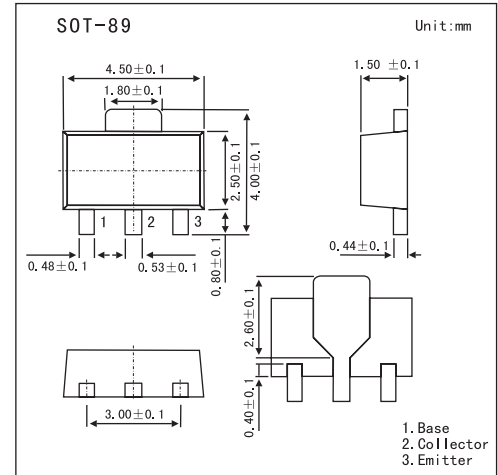


## Silicon NPN Epitaxial Planar Type

## 2SD2474

## ■ Features

- Low collector to emitter saturation voltage  $V_{CE(sat)}$ .
- Mini Power type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

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

Parameter	Symbol	Rating	Unit
Collector-base voltage	$V_{CBO}$	10	V
Collector-emitter voltage	$V_{CEO}$	10	V
Emitter-base voltage	$V_{EBO}$	7	V
Collector current	$I_C$	2.4	A
Peak collector current	$I_{CP}$	2	A
Collector power dissipation	$P_C$	1	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 cutoff current	$I_{CBO}$	$V_{CB} = 7\text{ V}, I_E = 0$			1	$\mu\text{A}$
Collector-base voltage	$V_{CBO}$	$I_C = 10\ \mu\text{A}, I_E = 0$	10			V
Collector-emitter voltage	$V_{CEO}$	$I_C = 1\ \text{mA}, I_B = 0$	10			V
Emitter-base voltage	$V_{EBO}$	$I_E = 10\ \mu\text{A}, I_C = 0$	7			V
Forward current transfer ratio	$h_{FE}$	$V_{CE} = 2\ \text{V}, I_C = 200\ \text{mA}$	200		800	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 1\ \text{A}, I_B = 10\ \text{mA}$		0.19	0.25	V
Transition frequency	$f_T$	$V_{CB} = 6\ \text{V}, I_E = -50\ \text{mA}, f = 200\ \text{MHz}$		60		MHz
Collector output capacitance	$C_{ob}$	$V_{CB} = 6\ \text{V}, I_E = 0, f = 1\ \text{MHz}$		100		pF

## ■ Marking

Marking	2F
---------	----