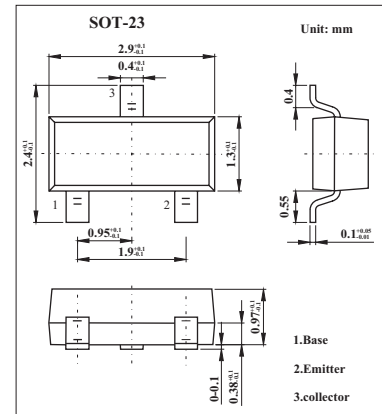


## Silicon NPN Epitaxial Planar Type

## 2SC2778

## ■ Features

- Optimum for RF amplification, oscillation, mixing, and IF of FM/AM radios.
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.



## ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V <sub>CB0</sub>	30	V
Collector-emitter voltage	V <sub>CEO</sub>	20	V
Emitter-base voltage	V <sub>EBO</sub>	5	V
Collector current	I <sub>C</sub>	30	mA
Collector power dissipation	P <sub>C</sub>	200	mW
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

## ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base voltage	V <sub>CB0</sub>	I <sub>C</sub> = 10μA, I <sub>E</sub> = 0	30			V
Collector-emitter voltage	V <sub>CEO</sub>	I <sub>C</sub> = 2 mA, I <sub>B</sub> = 0	20			V
Emitter-base voltage	V <sub>EBO</sub>	I <sub>E</sub> = 10μA, I <sub>C</sub> = 0	5			V
Forward current transfer ratio	h <sub>FE</sub>	V <sub>CE</sub> = 10 V, I <sub>C</sub> = 1 mA	70		250	
Transition frequency	f <sub>T</sub>	V <sub>CB</sub> = 10 V, I <sub>E</sub> = -1 mA, f = 200 MHz	150	230		MHz
Reverse transfer capacitance	C <sub>re</sub>	V <sub>CB</sub> = 10 V, I <sub>E</sub> = -1 mA, f = 10.7 MHz		1.3		pF

## ■ hFE Classification

Marking	KB	KC
h <sub>FE</sub>	70~160	110~250