

2SC2404

Silicon NPN epitaxial planer type

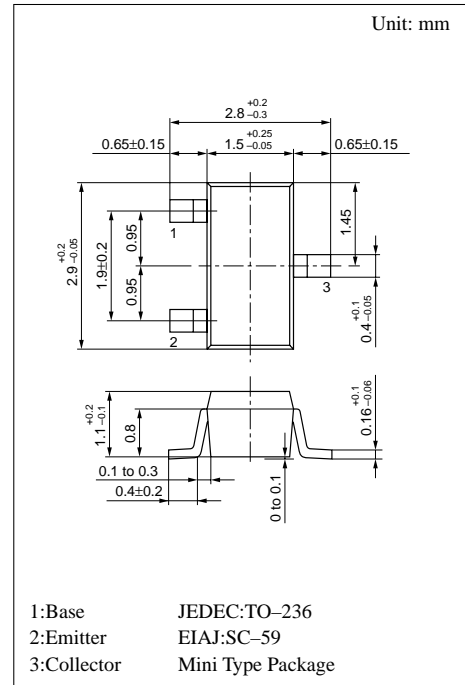
For high-frequency amplification

■ Features

- Optimum for RF amplification of FM/AM radios.
- High transition frequency f_T .
- 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	Ratings	Unit
Collector to base voltage	V_{CBO}	30	V
Collector to emitter voltage	V_{CEO}	20	V
Emitter to base voltage	V_{EBO}	3	V
Collector current	I_C	15	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C



Marking symbol : U

■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V_{CBO}	$I_C = 10\mu A, I_E = 0$	30			V
Emitter to base voltage	V_{EBO}	$I_E = 10\mu A, I_C = 0$	3			V
Forward current transfer ratio	h_{FE}^*	$V_{CB} = 6V, I_E = -1mA$	40		260	
Base to emitter voltage	V_{BE}	$V_{CB} = 6V, I_E = -1mA$		0.72		V
Transition frequency	f_T	$V_{CB} = 6V, I_E = -1mA, f = 100MHz$	450	650		MHz
Common emitter reverse transfer capacitance	C_{re}	$V_{CE} = 6V, I_C = 1mA, f = 10.7MHz$		0.8	1	pF
Power gain	PG	$V_{CB} = 6V, I_E = -1mA, f = 100MHz$		24		dB
Noise figure	NF	$V_{CB} = 6V, I_E = -1mA, f = 100MHz$		3.3		dB

* h_{FE} Rank classification

Rank	B	C	D
h_{FE}	40 ~ 110	65 ~ 160	100 ~ 260
Marking Symbol	UB	UC	UD

