2SC3391

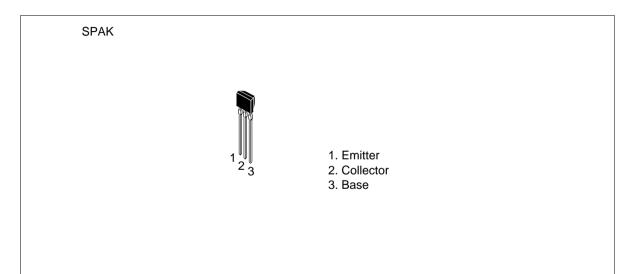
Silicon NPN Epitaxial Planar

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Application

VHF amplifier, Mixer, Local oscillator

Outline





2SC3391

Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

Item	Symbol	Ratings	Unit V	
Collector to base voltage	V _{CBO}	30		
Collector to emitter voltage	V _{CEO}	V _{CEO} 20		
Emitter to base voltage	V _{EBO}	4	V	
Collector current	Ι _c	20	mA	
Collector power dissipation	Pc	200	mW	
Junction temperature	Тј	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

Electrical Characteristics (Ta = 25°C)

30 20 4	_	_	V V	$I_{c} = 10 \ \mu A, I_{E} = 0$ $I_{c} = 1 \ mA, R_{BE} = \infty$
	—		V	$I_{-} = 1 \text{ mA } R_{-} = \infty$
4				$r_{\rm C} = 1$ m/s, $r_{\rm BE} = \infty$
	_	—	V	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$
	—	0.5	μΑ	$V_{CB} = 10 \text{ V}, \text{ I}_{E} = 0$
60	_	200		$V_{ce} = 6 \text{ V}, \text{ I}_{c} = 1 \text{ mA}$
	0.72	—	V	$V_{ce} = 6 \text{ V}, \text{ I}_{c} = 1 \text{ mA}$
_	0.17	_	V	$I_{c} = 20 \text{ mA}, I_{B} = 4 \text{ mA}$
450	940	_	MHz	$V_{ce} = 6 \text{ V}, \text{ I}_{c} = 5 \text{ mA}$
_	0.9	1.2	pF	$V_{CB} = 10 \text{ V}, \text{ I}_{E} = 0, \text{ f} = 1 \text{ MHz}$
17	20	_	dB	$V_{ce} = 6 \text{ V}, \text{ I}_{c} = 1 \text{ mA},$ f = 100 MHz
	3.5	5.5	dB	$V_{ce} = 6 V, I_c = 1 mA,$ $R_g = 50 \Omega, f = 100 MHz$
	_	- 0.17 450 940 - 0.9 17 20	- 0.17 - 450 940 - - 0.9 1.2 17 20 -	- 0.17 - V 450 940 - MHz - 0.9 1.2 pF 17 20 - dB

Note: 1. The 2SC3391 is grouped by h_{FE} as follows.

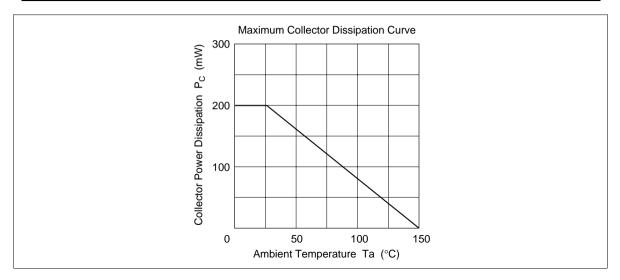
B C

60 to 120 100 to 200

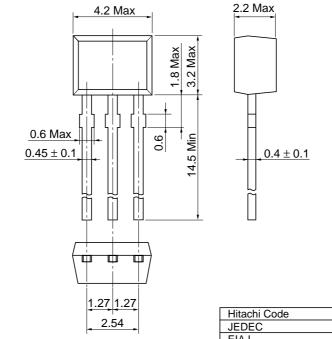
See characteristic curves of 2SC535.

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2SC3391



Unit: mm



Hitachi Code	SPAK
JEDEC	_
EIAJ	—
Weight (reference value)	0.10 g

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