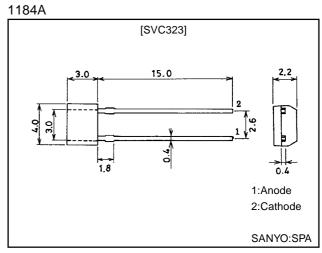


## Features

- $\cdot$  High capacitance ratio and high quality factor.
- · AM 1710kHz max. supported.

## Package Dimensions

unit:mm



# **Specifications**

### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
Falameter		Conditions		typ	max	Unit
Breakdown Voltage	V <sub>(BR)</sub> R	I <sub>R</sub> =10µA	16			V
Reverse Current	IR	V <sub>R</sub> =9V			100	nA
Interterminal Capacitance	C <sub>1V</sub>	V <sub>R</sub> =1V, f=1MHz*1	462.8		536.7	pF
	C <sub>6V</sub>	V <sub>R</sub> =6V, f=1MHz	45.72		59.72	pF
	C <sub>8V</sub>	V <sub>R</sub> =8V, f=1MHz	21.12		27.05	pF
Quality Factor	Q	V <sub>R</sub> =1V, f=100MHz	200			
Capacitance Ratio	CR	C <sub>1.0V</sub> /C <sub>8.0V</sub> , f=1MHz	17.5		24.5	
Matching Tolerance	$\Delta C_m$	(C <sub>max</sub> -C <sub>min</sub> )/C <sub>min</sub> ×100			3.0	%

#### Note)\*1:1MHz signal:20m Vrms

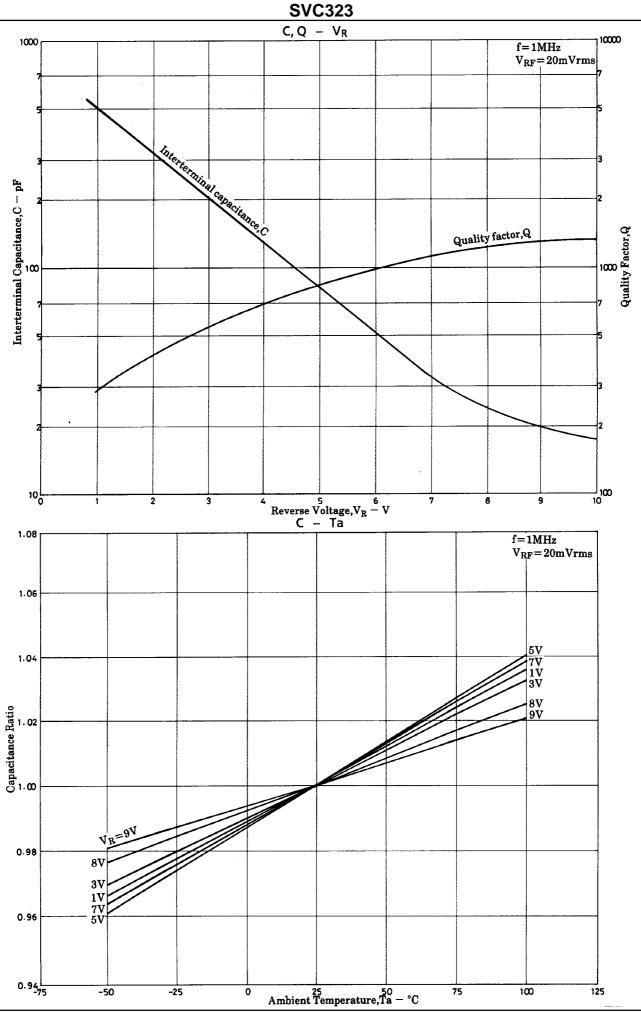
Note)\*:The SVC323 is classified by  $C_{1.0V}$  as follows:

Rank	C <sub>1.0V</sub>		
R	462.8 to 486.2pF		
S	481.5 to 515.9pF		
Т	551.0 to 536.7pF		

(Specify two ranks or more in principle.)

## Address and Capacitance Value

Test Point	C <sub>1.0V</sub>		C <sub>6.0V</sub>		C <sub>8.0V</sub>		
	Address	(pF) Capacitance	Address	(pF) Capacitance	Address	$\underbrace{^{(pF)}}_{\text{Capacitance}}$	
	204	( <sup>462.8</sup> 476.6	87	( <sup>45.72</sup> 47.09	48	$(\frac{21.12}{21.75})$	
	205	( <sup>472.1</sup> 486.2	88	$(\frac{46.63}{48.03})$	49	$\left(rac{21.54}{22.19} ight)$	
	206	( <sup>481.5</sup> 495.9	89	( <sup>47.57</sup> 48.99	50	$(\frac{21.97}{22.63}$	
	207	( <sup>491.1</sup> 505.8	90	( <sup>48.52</sup> 49.97	51	$\left( {\begin{array}{*{22.41}\\{23.08}} \end{array} \right)$	
ne	208	< <sup>500.9</sup> 515.9	91	( <sup>49.49</sup> 50.97	52	$\left( {\begin{array}{*{20}c} 22.86\\ 23.55 \end{array} \right)$	
nce Val	209	$\left(rac{511.0}{526.3} ight)$	92	( <sup>50.48</sup> 51.99	53	$\left( {{23.32}\atop{24.02}} \right)$	
Capacitance Value	210	( <sup>521.1</sup> 536.7	93	( <sup>51.49</sup> 53.03	54	$\left( {{23.78}\atop{24.50}} \right)$	
0			94	( <sup>52.52</sup> 54.09	55	$(\frac{24.26}{24.99})$	
			95	( <sup>53.57</sup> 55.17	56	$(rac{24.74}{25.49})$	
			96	$({54.64\atop56.28}$	57	$(\frac{25.24}{26.00})$	
			97	( <sup>55.73</sup> 57.40	58	$(\frac{25.74}{26.52})$	
			98	( <sup>56.84</sup> 58.55	59	$\left(rac{26.26}{27.05} ight)$	
			99	( <sup>57.98</sup> 59.72			



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