



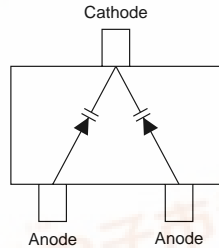
SVC220

Diffused Junction Type Silicon Diode Varactor Diode for FM Receiver Electronic Tuning Use

Features

- Twin type varactor diode with good large-signal characteristics for FM receiver electronic tuning use.
- Very small package permits SVC220-applied sets to be compact and slim.
- Can be also provided in tape reel package automatic insertion is supported.
- High Q.

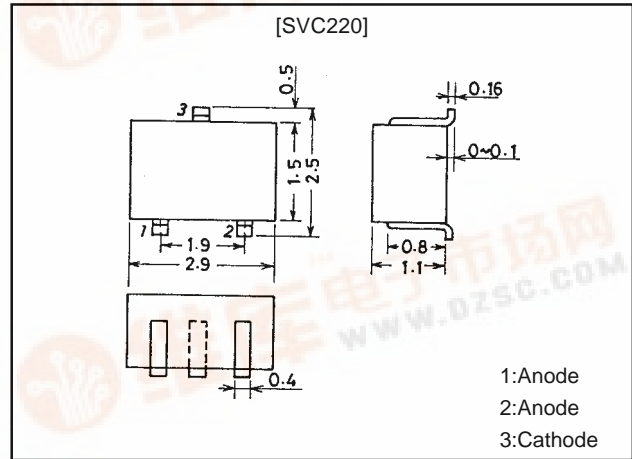
Electrical Connection



Package Dimensions

unit:mm

1169A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		16	V
Junction Temperature	T_j		125	°C
Storage Temperature	T_{stg}		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	16			V
Reverse Current	I_R	$V_R=10V$			50	nA
Interterminal Capacitance *1	C_{2V}	$V_R=2.0V, f=1MHz$	44.0		46.5	pF
	C_{8V}	$V_R=8.0V, f=1MHz$	25.1		28.2	pF
Quality Factor	Q	$V_R=3.0V, f=100MHz$	100			
Capacitance Ratio	C_R	$C_{2.0V}/C_{8.0V}$	1.65		1.75	
Matching Tolerance *2	ΔC_m	$V_R=2.0V, f=1MHz (C_{max}-C_{min})/C_{min}$			0.03	

*1 : Capacitance value per each diode.

*2 : Capacitance deviation of seven samples packaged consecutively in a tape.

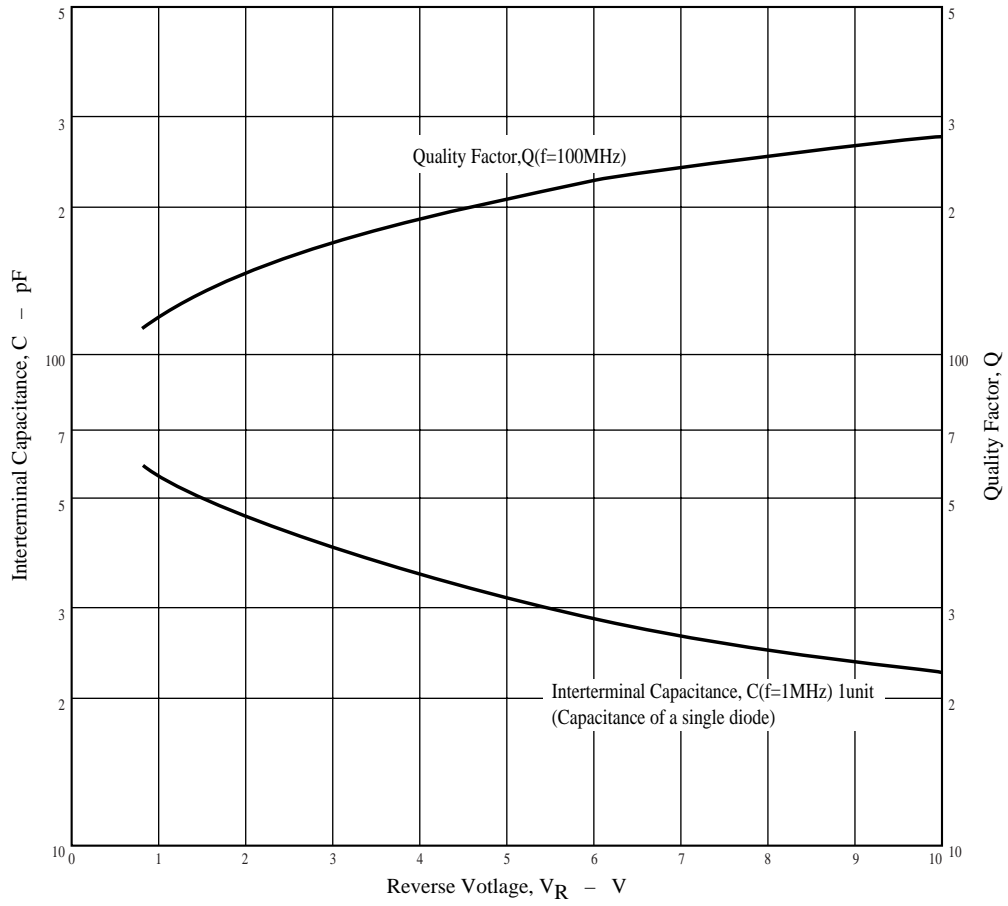
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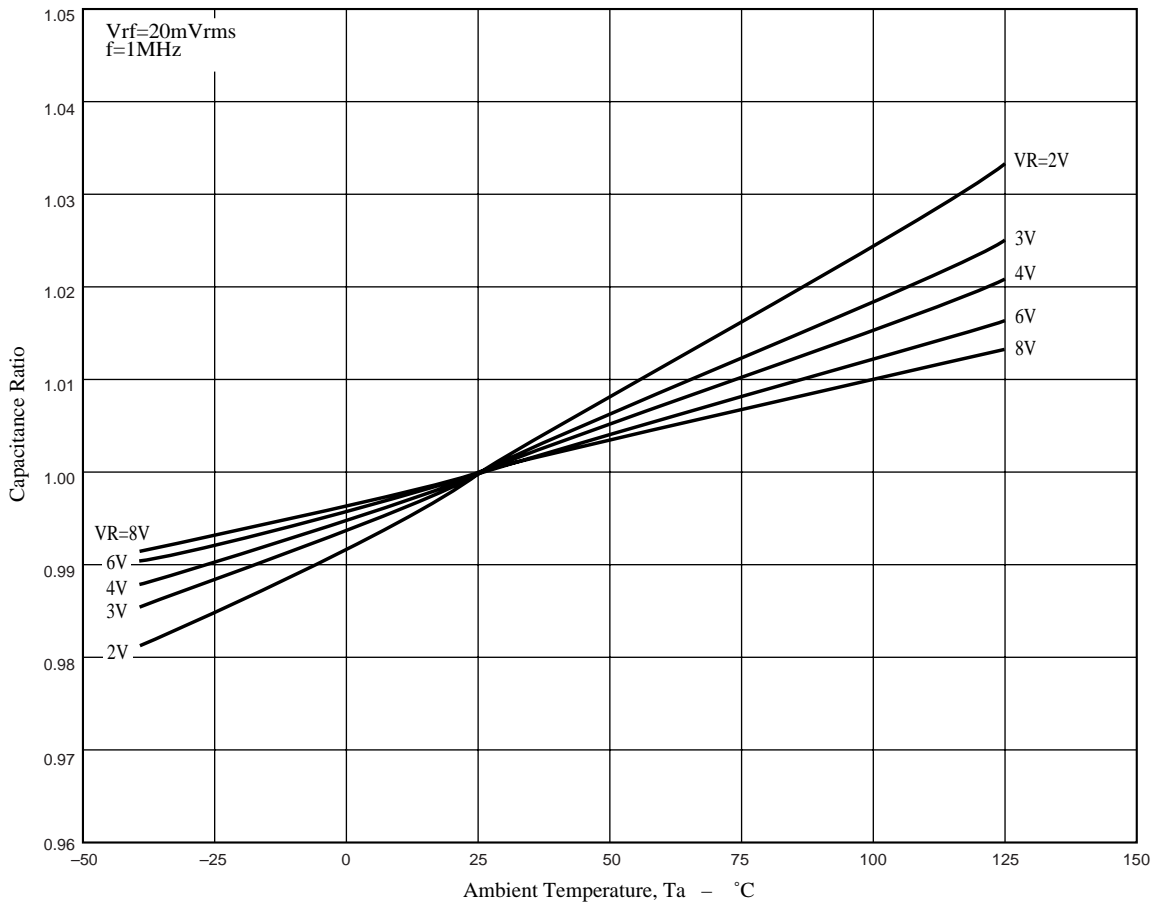
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SVC220

C, Q - V_R



C - T_a



SVC220

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