



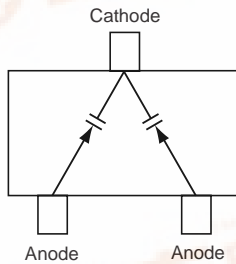
SVC241

Varactor Diode For AM Up Conversion Tuning Use

Features

- Twin type with a good linearity of C-V characteristic. Excels in large input characteristic.
- Small package (CP) allows the applied sets to be compact and slim (surface mount type).
- High capacitance ratio ($V_R=2.0$ to $8.0V$).
- FM band VCO use.

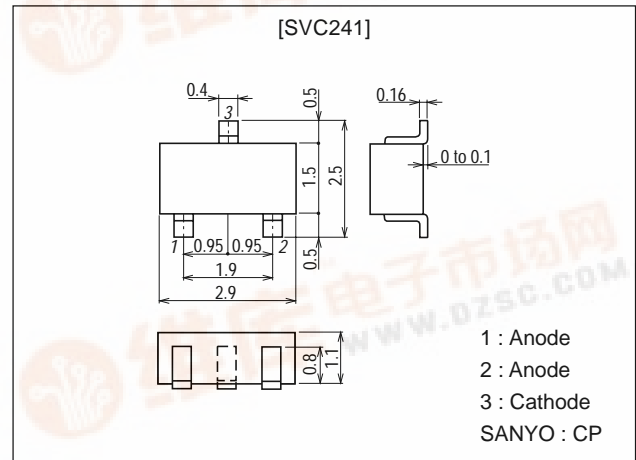
Electrical Connection



Package Dimensions

unit:mm

1169A



Specifications

Absolute Maximum Ratings at $T_a = 25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		16	V
Junction Temperature	T_J		125	$^\circ C$
Storage Temperature	T_{stg}		-55 to +125	$^\circ C$

Electrical Characteristics at $T_a = 25^\circ C$

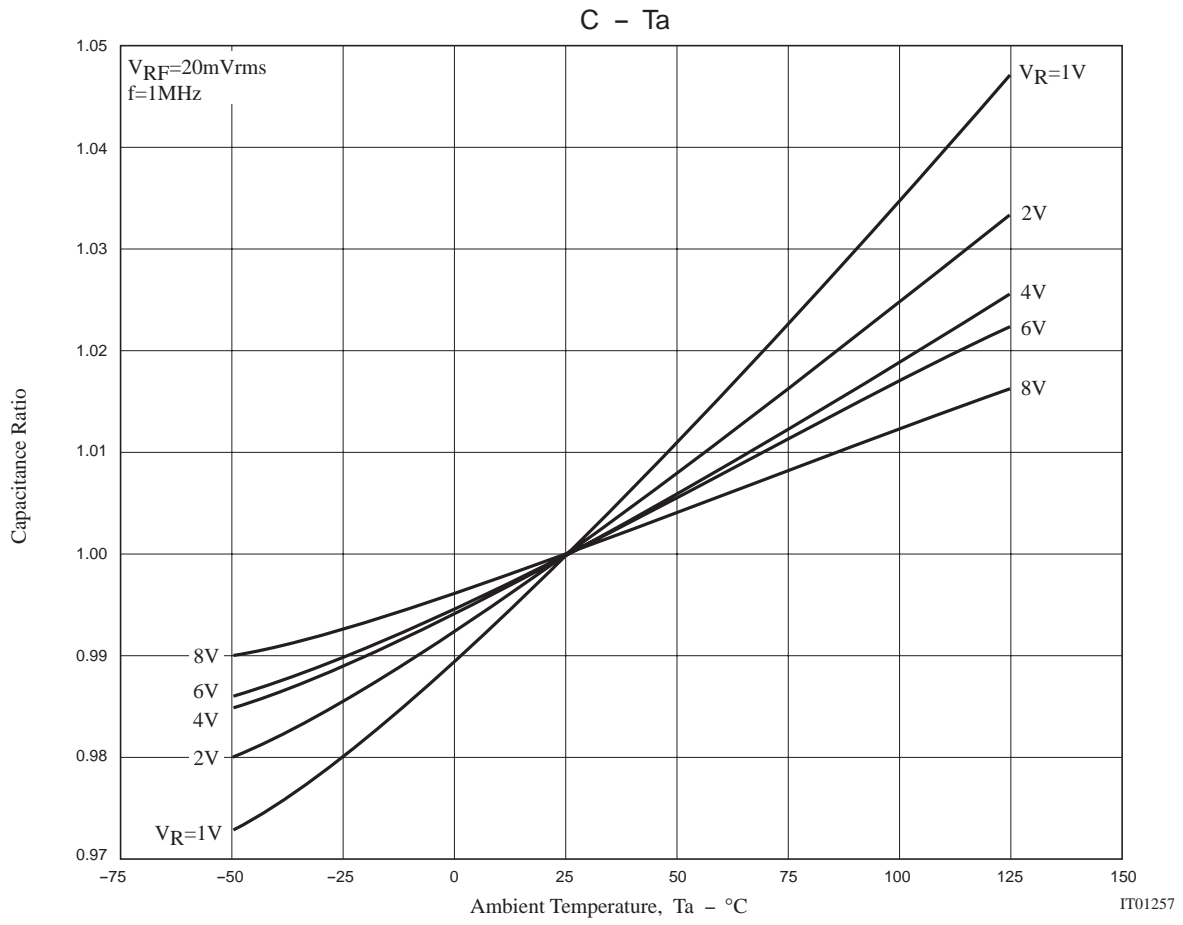
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	16			V
Reverse Current (One diode) *	I_R	$V_R=10V$			50	nA
Interterminal Capacitance	C2.0V	$V_R=2.0V, f=1MHz$	68.4		76.0	pF
	C6.0V	$V_R=6.0V, f=1MHz$	25.5		36.2	pF
	C8.0V	$V_R=8.0V, f=1MHz$	19.4		24.4	pF
Quality Factor	Q	$V_R=3.0V, f=100MHz$	80			
Capacitance Ratio	CR	C2.0V/C8.0V	3.1			

* : Capacitance value of one diode
Marking : VV

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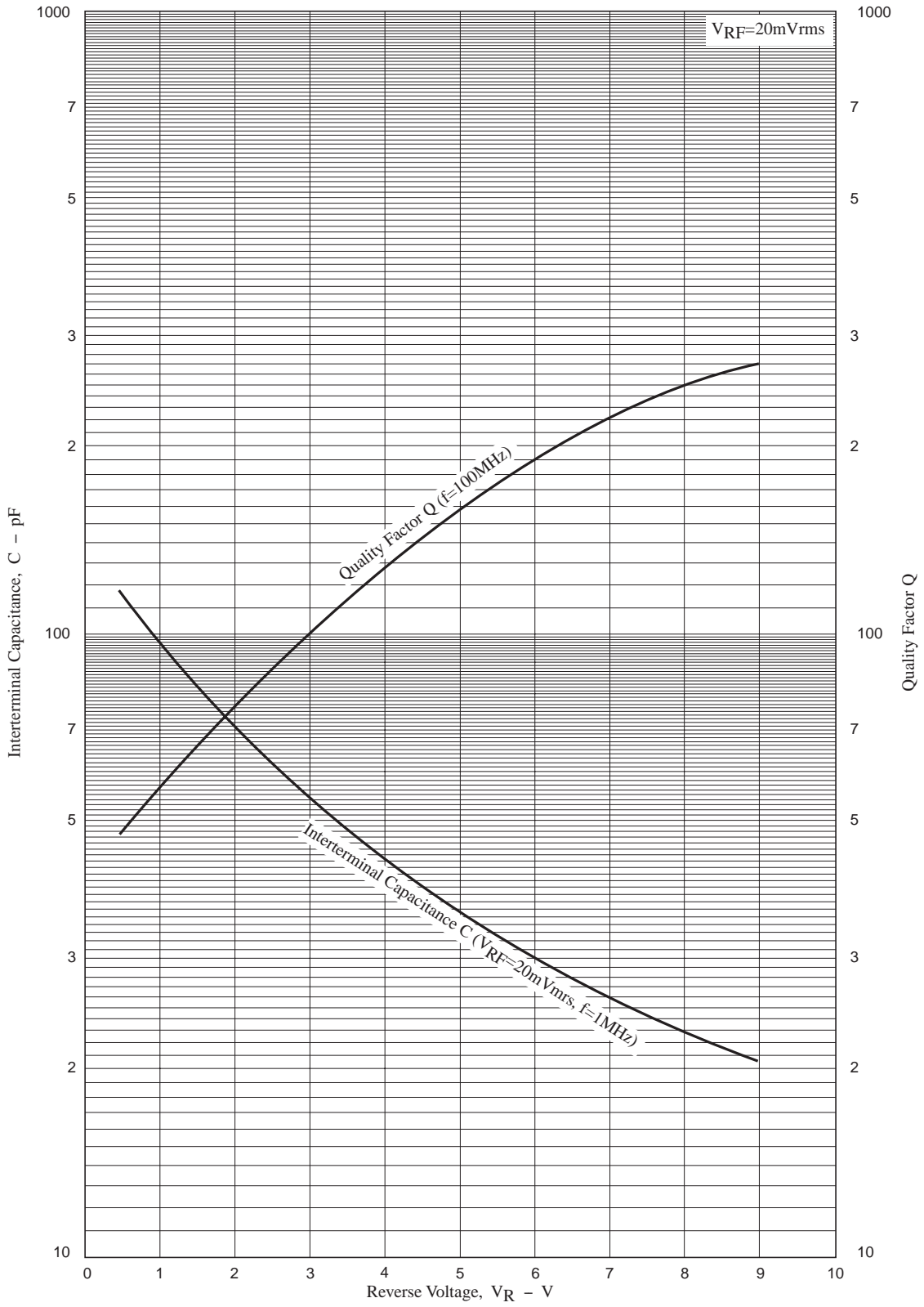


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C, Q - V_R



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