



ON Semiconductor®

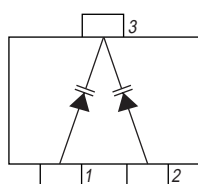
ON Semiconductor DATA SHEET

SVC272 — Silicon Diffused Junction Type Varactor Diode FM Receiver Electronic Tuning Applications

Features

- Twin type varactor diode with good large-signal characteristics for FM receiver electronic tuning use.
- Small package permits SVC272-applied sets to be compact and slim.
- Can be also provided in tape reel package thereby automatic insertion is supported.
- High Quality Factor.

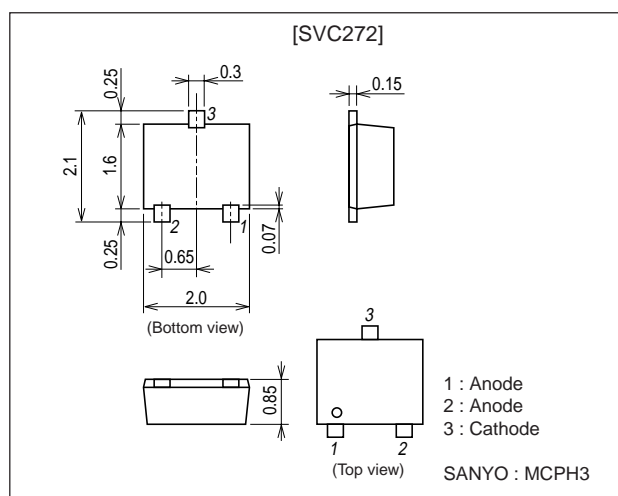
Electrical Connection



1 : Anode
2 : Anode
3 : Cathode
Top view

Package Dimensions

unit : mm
1326



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

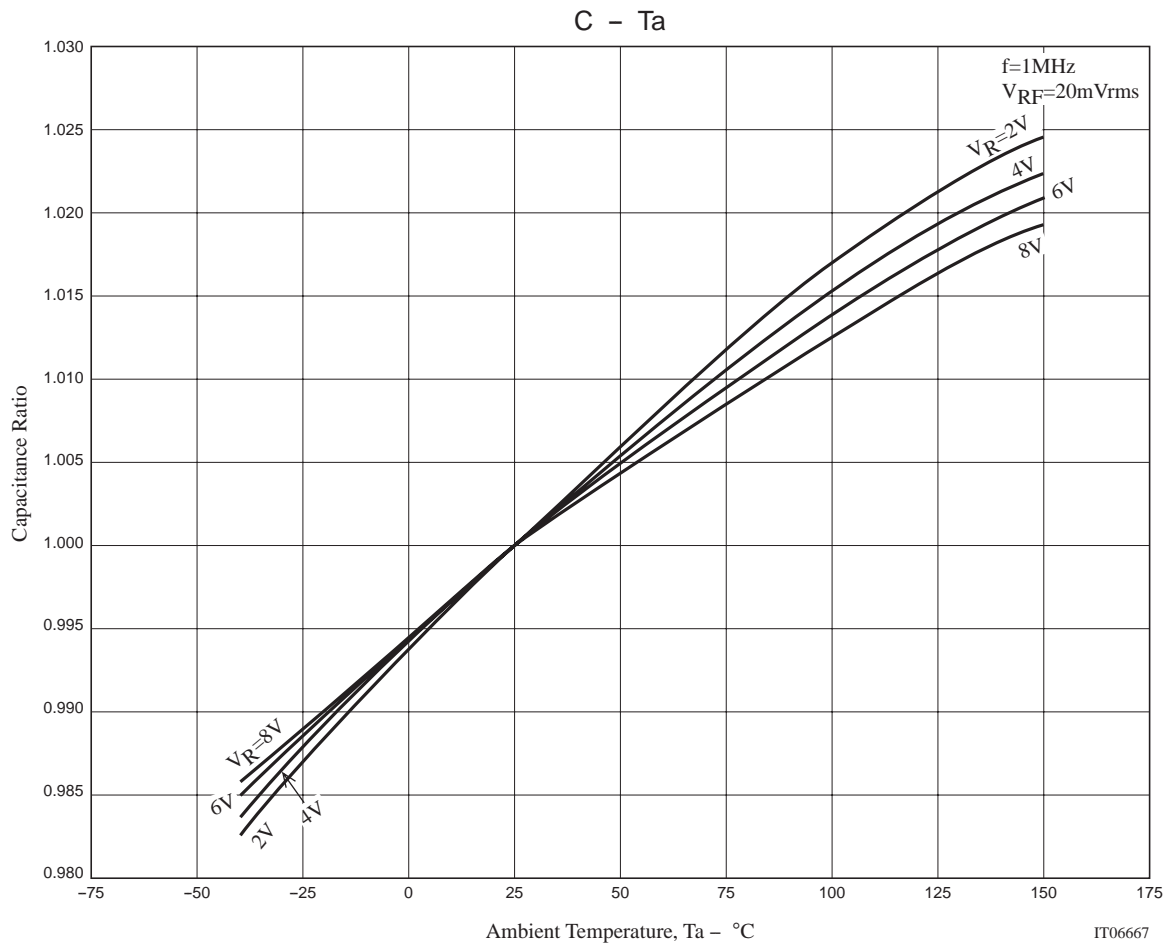
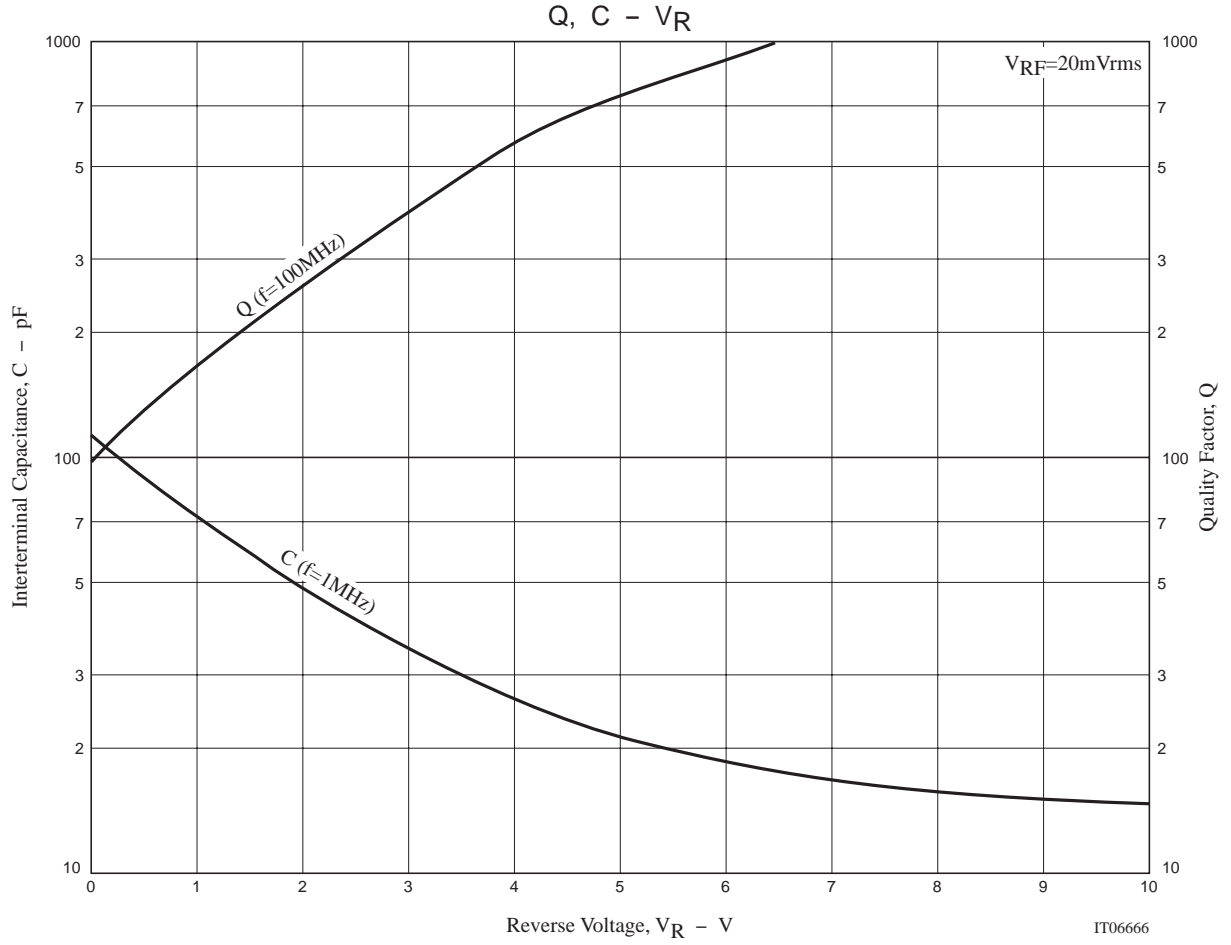
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	14			V
Reverse Current	I_R	$V_R=10V$			50	nA
Interterminal Capacitance*	C2.0V	$V_R=2.0V, f=1MHz$	44.91		49.82	pF
	C8.0V	$V_R=8.0V, f=1MHz$	14.07		18.55	pF
Quality Factor	Q	$V_R=2.0V, f=100MHz$	150			
Capacitance Ratio	CR	C2.0V / C8.0V	2.3			
Matching Tolerance	ΔC_m	$V_R=2.0V, 8.0, f=1MHz (C \text{ max}-C \text{ min}) / C \text{ min} \times 100$			3.0	%

Note)* : Capacitance value per each diode.

Marking : V2

SVC272



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