Ordering number : ENN7680

ON Semiconductor®

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DATA SHEET

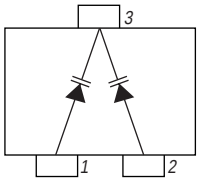
Silicon Diffused Junction Type Varactor Diode

SVC272 — 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 provieded in tape reel package thereby automatic insertion is supported.
- High Quality Factor.

Electrical Connection



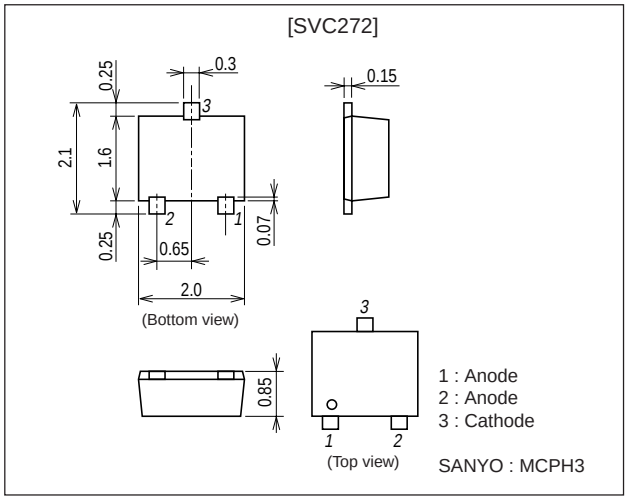
1 : Anode
2 : Anode
3 : Cathode

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	Tj		125	°C
Storage Temperature	Tstg		-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=10μA	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	ΔCm	V_R=2.0V, 8.0, f=1MHz (C max-C min) / C min×100			3.0	%

Note)* : Capacitance value per each diode.

Marking : V2

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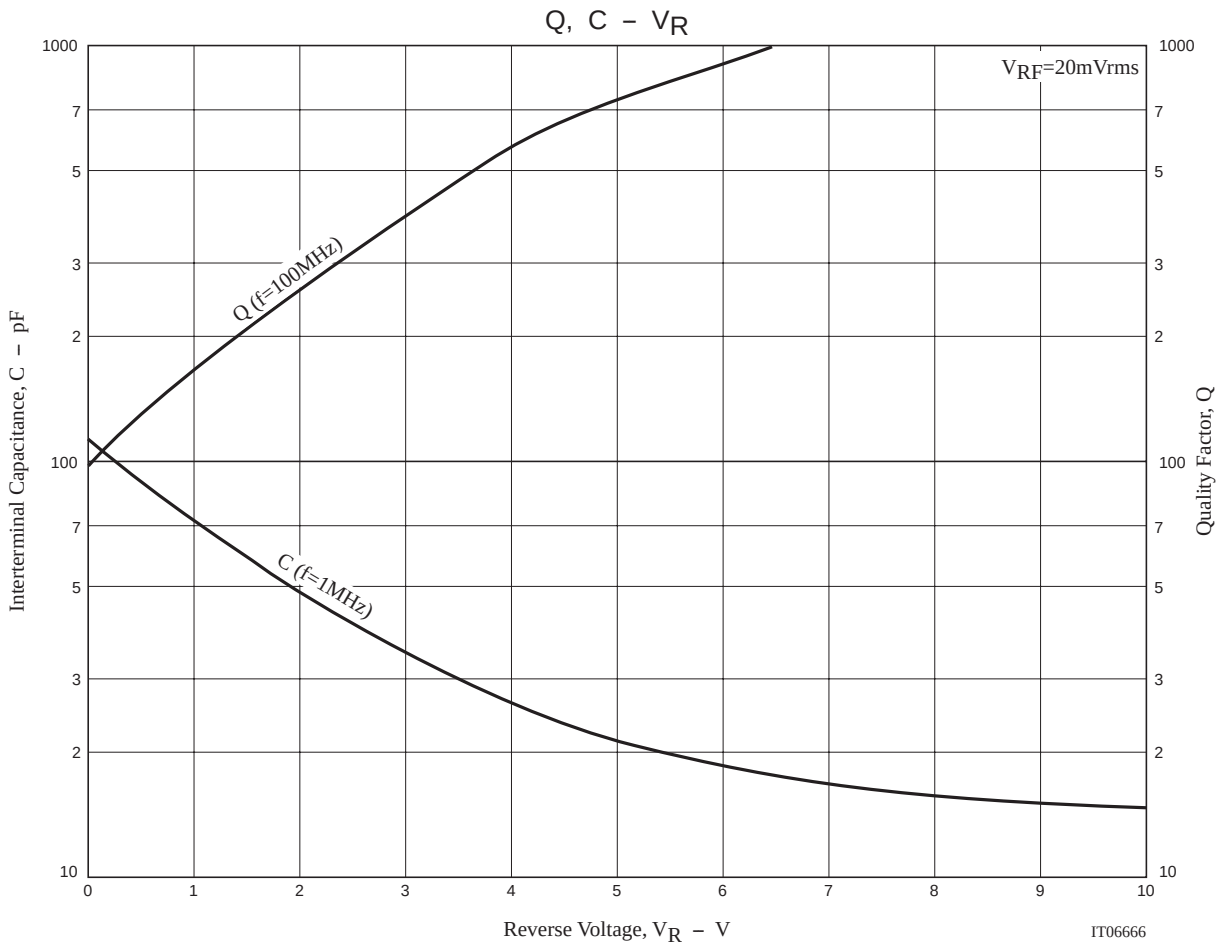
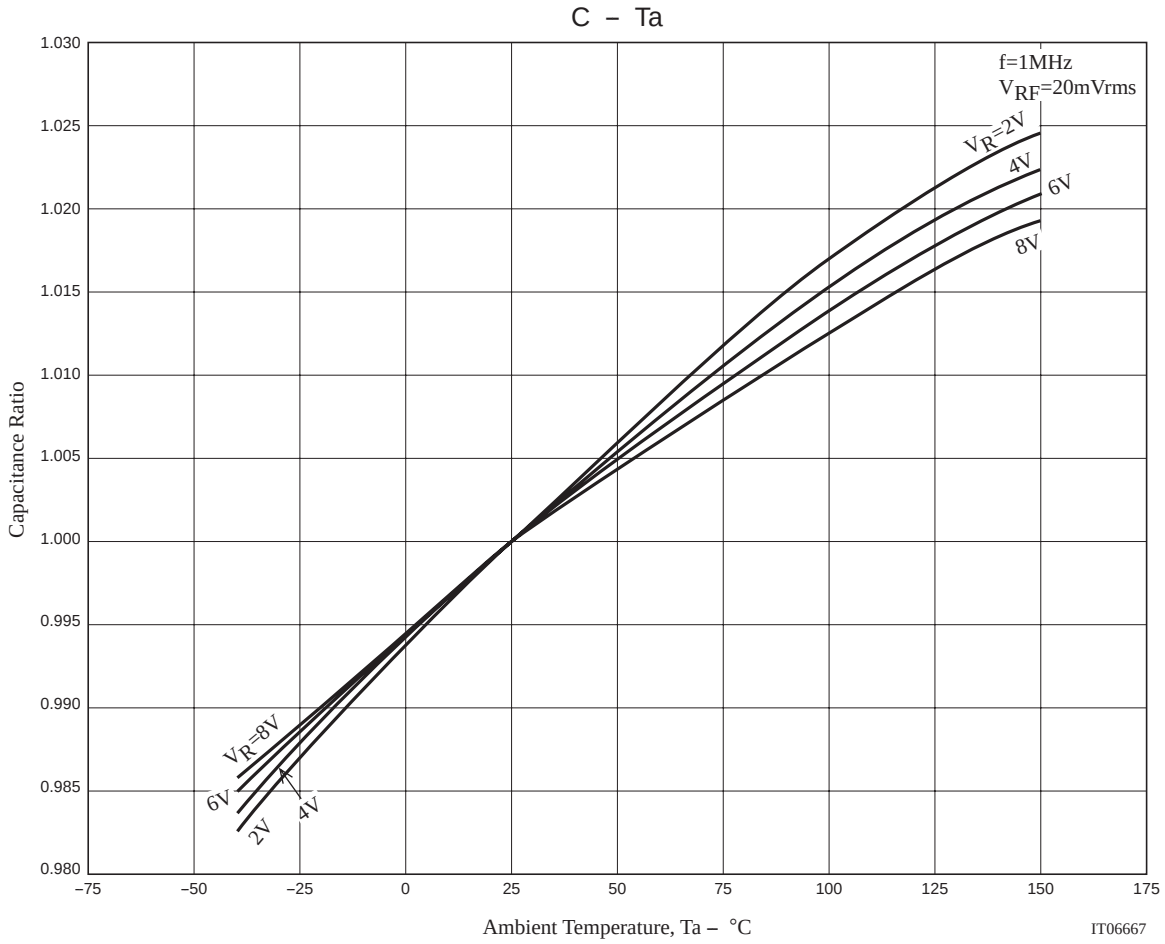

Q, C – VR
VRF=20mVrms
Q (f=100MHz)
C (f=1MHz)
Interterminal Capacitance, C – pF
Quality Factor, Q
Reverse Voltage, VR – V
IT06666


C – Ta
f=1MHz
VRF=20mVrms
VR=2V
4V
6V
8V
VR=8V
6V
4V
2V
Capacitance Ratio
Ambient Temperature, Ta – °C
IT06667

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