Ordering number : ENN7680



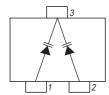
# ON Semiconductor DATA SHEET

# 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 provieded in tape reel package thereby automatic insertion is supported.
- · High Quality Factor.

## **Electrical Connection**

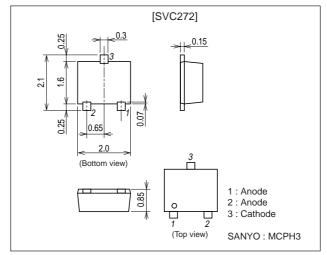


1 : Anode 2 : Anode 3 : Cathode

Top view

# **Package Dimensions**

unit : mm 1326



## **Specifications**

## Absolute Maximum Ratings at Ta=25°C

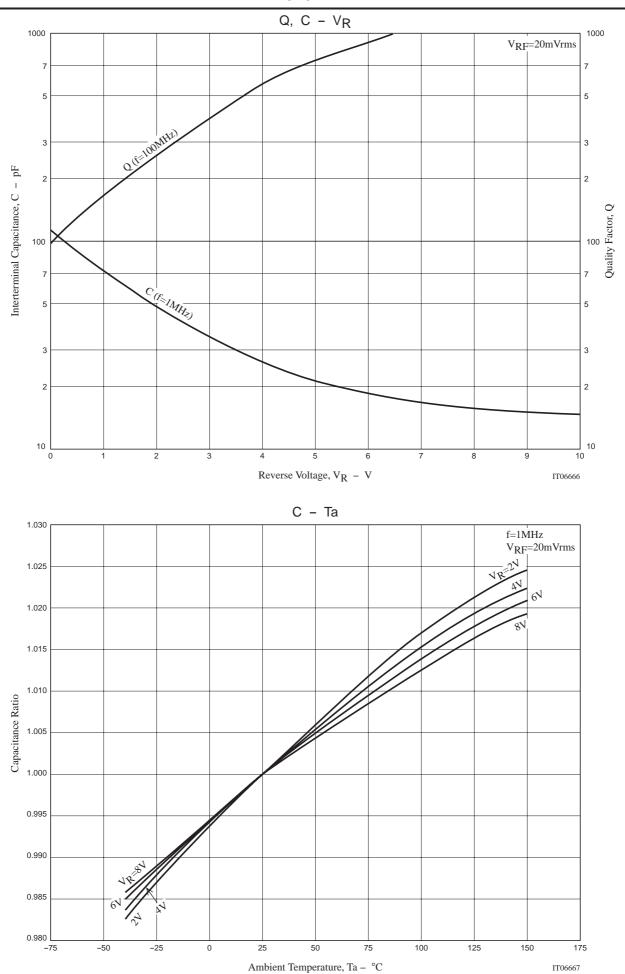
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Breakdown Voltage	V(BR)R	I <sub>R</sub> =10μA	14			V
Reverse Current	IR	V <sub>R</sub> =10V			50	nA
	C2.0V	V <sub>R</sub> =2.0V, f=1MHz	44.91		49.82	pF
Interterminal Capacitance*	C8.0V	V <sub>R</sub> =8.0V, f=1MHz	14.07		18.55	pF
Quality Factor	Q	V <sub>R</sub> =2.0V, f=100MHz	150			
Capacitance Ratio	CR	C2.0V / C8.0V	2.3			
Matching Tolerance	ΔCm	V <sub>R</sub> =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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