Ordering number : ENA0076

ON Semiconductor®

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DATA SHEET

Diffused Junction Type Silicon Diode

SVC270 — Varactor Diode for FM Receiver Electronic Tuning Applications

Features

- Twin type varactor diode having an excellent large input characteristic, for use in FM electronic tuning applications.
- Small MCPH package permits SVC270-applied sets to be compact and slim.
- Possible to be shipped in tape reel packaging, which facilitates automatic insertion.
- High Q.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		16	V
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		−55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	I_R=10μA	16			V
Reverse Current	I_R	V_R=10V			50	nA
Interterminal Capacitance*1	C2.0V	V_R=2.0V, f=1MHz	44.0		46.5	pF
	C8.0V	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	C2.0V / C8.0V	1.65		1.75	
Matching Tolerance*2	ΔCm	V_R=2.0V, f=1MHz (Cmax−Cmin) / Cmin×100			2.5	%

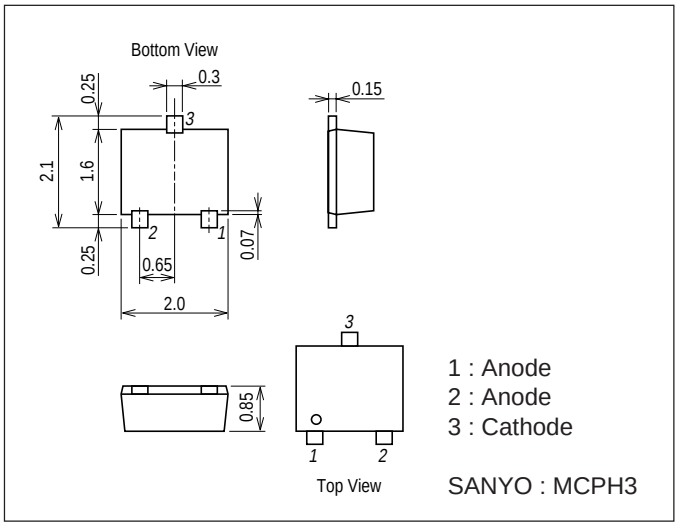
Marking : V4

Note)*1 : Capacitance value per each diode.
*2 : Matching Tolerance is valid for the devices in one taping reel.

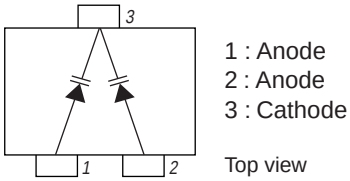
Package Dimensions

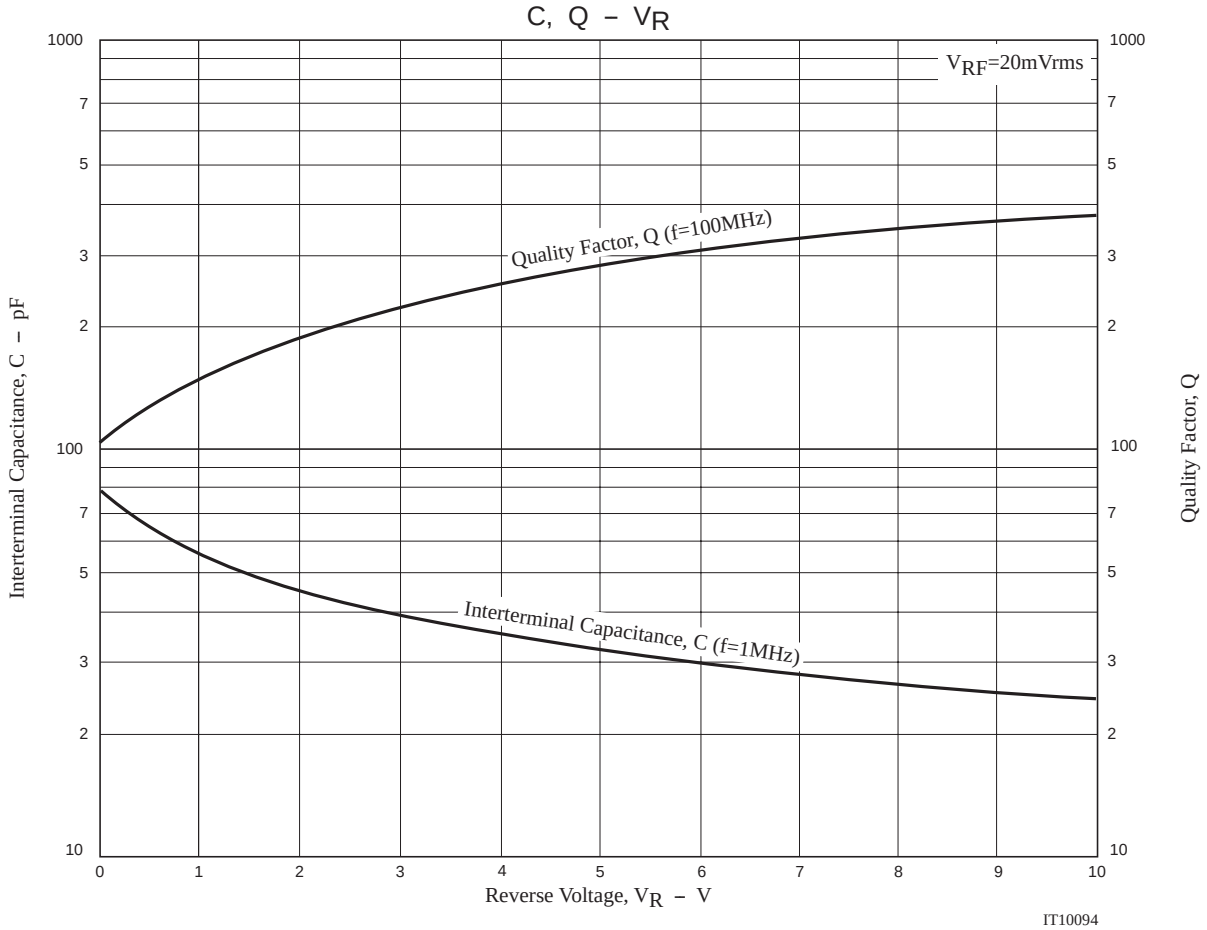
unit : mm

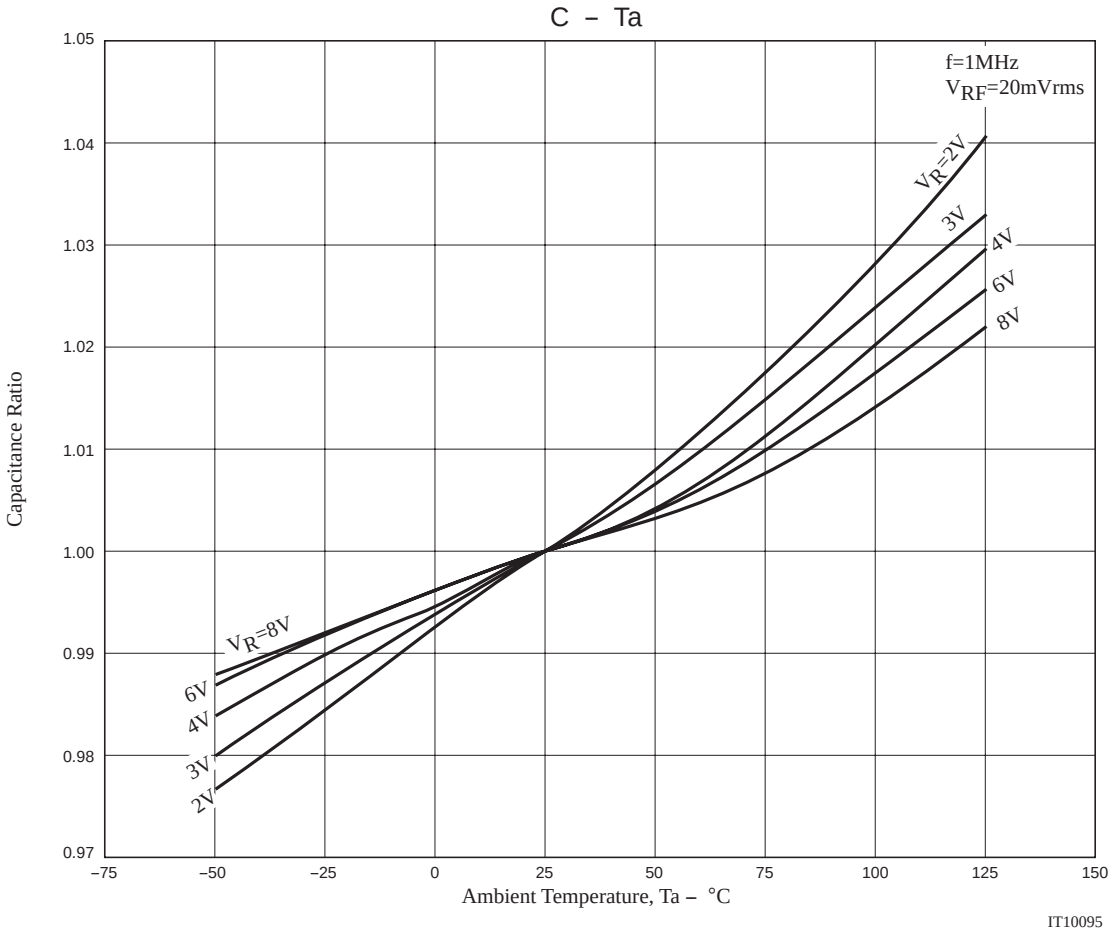
7019-002



Electrical Connection







PUBLICATION ORDERING INFORMATION

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