Ordering number : ENA1230



# ON Semiconductor DATA SHEET

# SVC720 — Silicon Diffused Junction Type Varactor Diode FM Receiver Electronic Tuning Applications

#### **Features**

- Twin type with a good linearity of C-V characteristic. Excels in large input characteristic.
- · Small MCPH package permits SVC720-applied sets to be compact and slim.
- High capacitance ratio (V<sub>R</sub>=1.0 to 4.0V).
- · Low series resistance.
- · Low voltage drive.

# **Specifications**

# Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	٧R		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	Offic
Breakdown Voltage	V(BR)R	IR=10μA	16			V
Reverse Current	IR	V <sub>R</sub> =10V			50	nA
Interterminal Capacitance*1	C1.0V	V <sub>R</sub> =1.0V, f=1MHz	20.7		27.6	pF
	C4.0V	V <sub>R</sub> =4.0V, f=1MHz	8.2		10.4	pF
Series Resistance	r <sub>S</sub>	V <sub>R</sub> =1.0V, f=470MHz		0.3		Ω
Capacitance Ratio	CR	C1.0V / C4.0V	2.0			
Matching Tolerance	ΔCm	V <sub>R</sub> =1.0V, 4.0V, f=1MHz (C max-C min) / C min×100			3.0	%

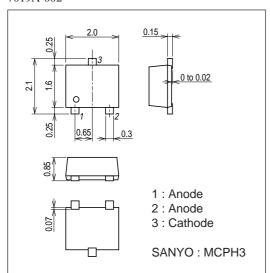
Marking: VD

Note)\*1 : Capacitance value per each diode.

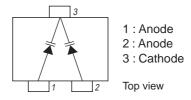
<sup>\*2:</sup> Matching Tolerance is valid for the devices in one taping reel.

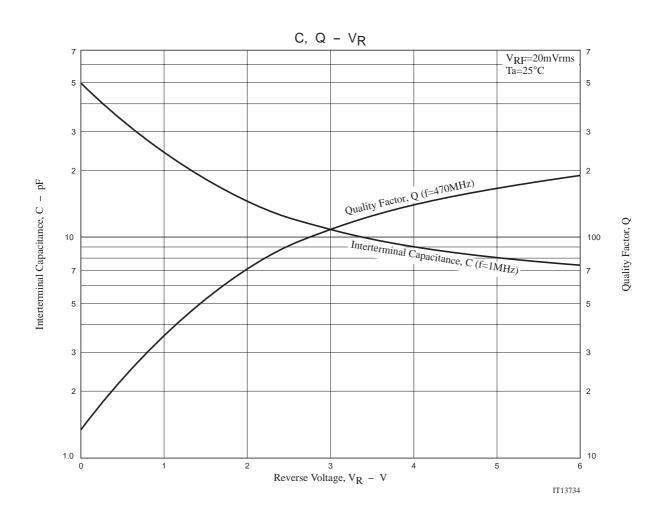
## **Package Dimensions**

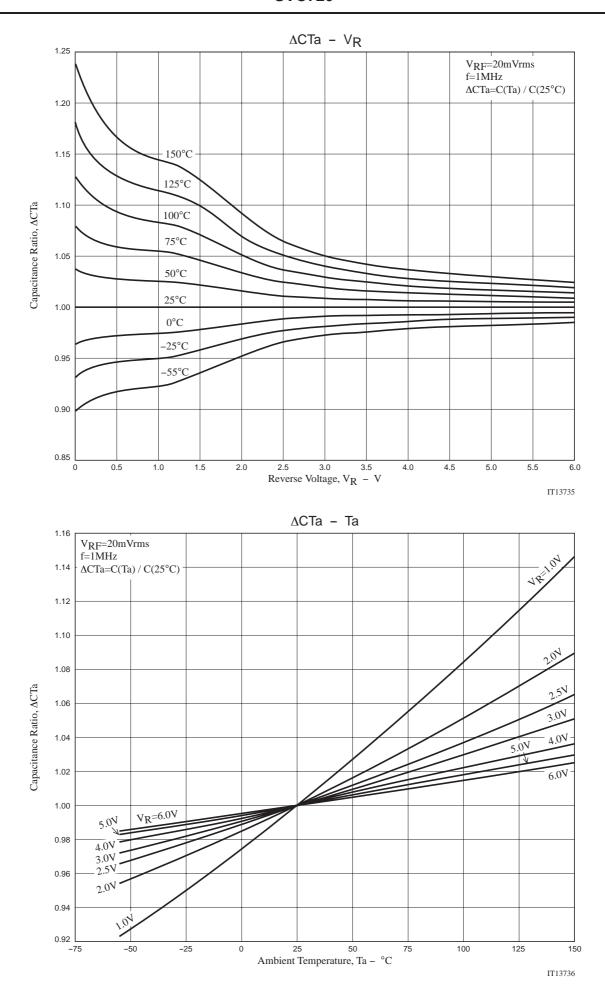
unit : mm (typ) 7019A-002



## **Electrical Connection**







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