

SANYO Semiconductors 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_R=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	VR		16	٧
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	I _R =10μA	16			٧
Reverse Current	IR	V _R =10V			50	nA
Interterminal Capacitance*1	C1.0V	V _R =1.0V, f=1MHz	20.7		27.6	pF
	C4.0V	V _R =4.0V, f=1MHz	8.2		10.4	pF
Series Resistance	r _S	V _R =1.0V, f=470MHz		0.3		Ω
Capacitance Ratio	CR	C1.0V / C4.0V	2.0			
Matching Tolerance	ΔCm	V _R =1.0V, 4.0V, f=1MHz (C max-C min) / C min×100			3.0	%

Marking: VD

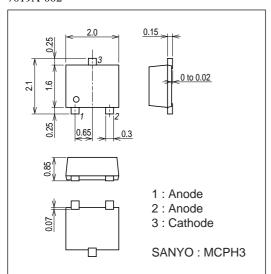
Note)*1 : Capacitance value per each diode.

*2 : Matching Tolerance is valid for the devices in one taping reel.

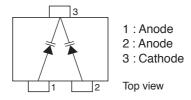
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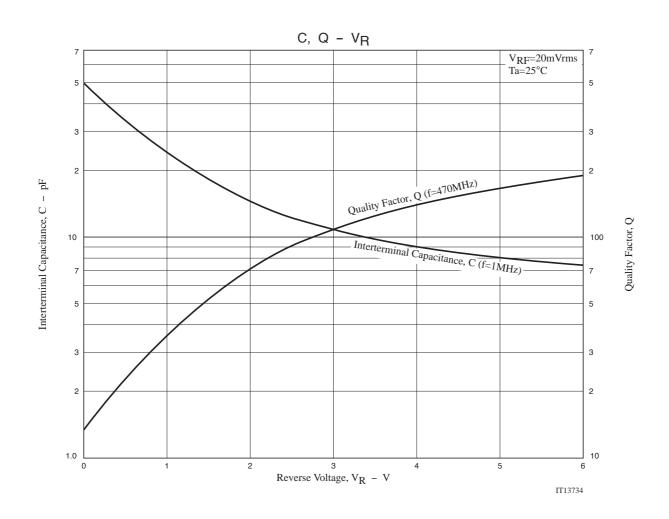
Package Dimensions

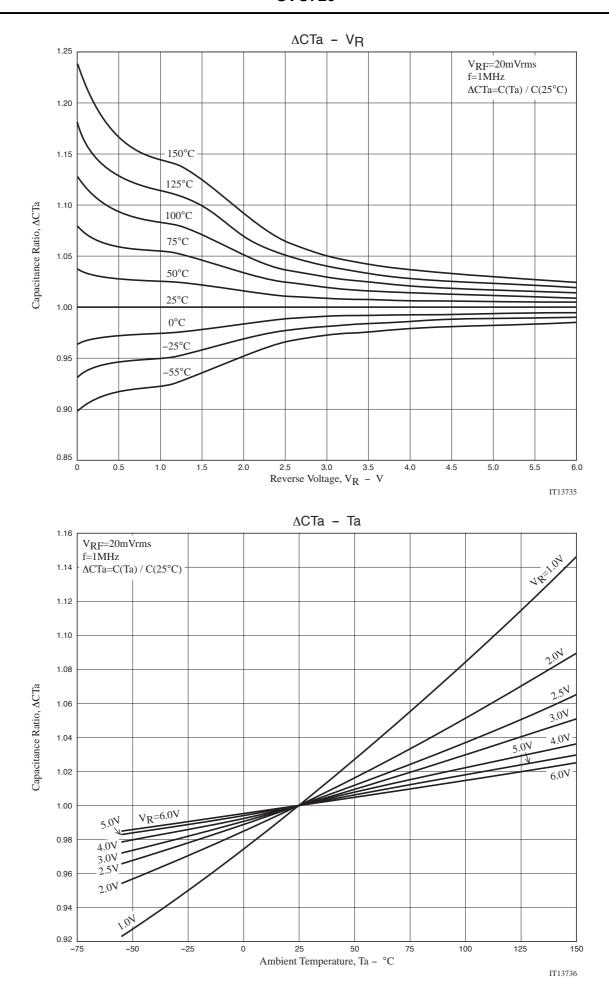
unit : mm (typ) 7019A-002



Electrical Connection







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