

SVC237

SANYO: SPA

Varactor Diode for FM Receiver Electronic Tuning Use

Package Dimensions

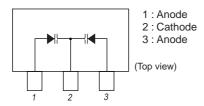
unit: mm

1292

Features

- Low voltage (6.5V).
- Twin type varactor diode with good large-signal characteristics for FM receiver electronic tuning use.
- Can be also provieded in tape reel package there by automatic insertion is supported.
- High capacitance ratio (V_R=1.0 to 6.5V).

Electrical Connection



Specifications

Absolute Maximum Ratings at Ta=25°C

[SVC237]
4.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4
1 : Anode 2 : Cathode 3 : Anode

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	٧R		16	V
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

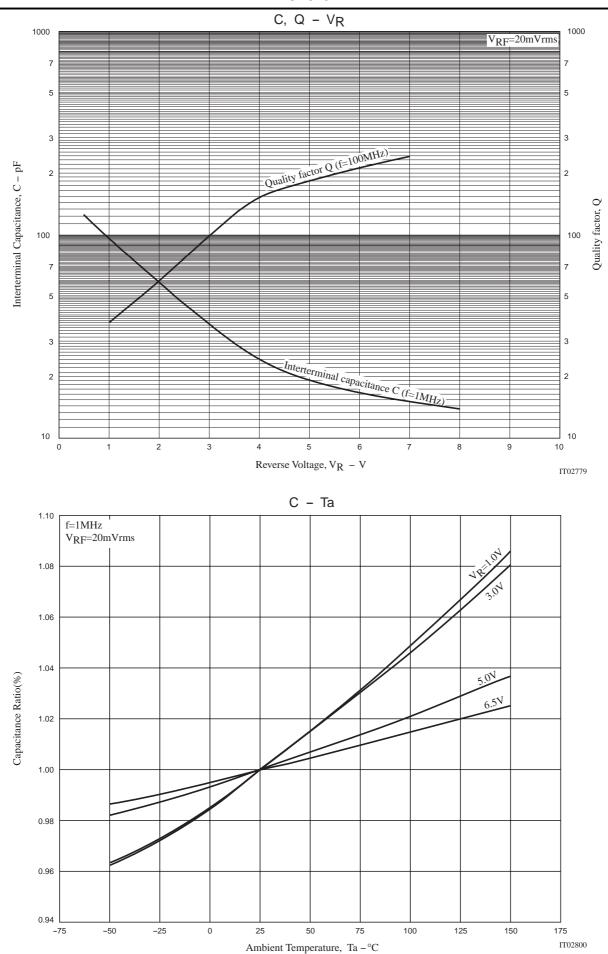
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O'III
Breakdown Voltage	V(BR)R	I _R =10μA	16			٧
Reverse Voltage	IR	V _R =10V			50	nA
Interterminal Capacitance*	C1V	V _R =1.0V, f=1MHz*	92.07		102.12	pF
	C3.0V	V _R =3.0V, f=1MHz	35.14		41.98	pF
	C6.5V	V _R =6.5V, f=1MHz	14.44		16.84	pF
Quality Factor	Q	V _R =3.0V, f=100MHz	70			
Capacitance Ratio	CR	C1.0V / C6.5V	5.0			
Matching Tolerance	ΔCm	V _R =1.0V, 3.0, 6.5, f=1MHz (Cmax-Cmin) / CminX100			3.0	%

Note)*: Capacitance value per each diode. *: 1MHz signal: 20mVnms

Marking: ZV

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