

Ordering number : ENN6800

Diffused Junction Type Silicon Diode

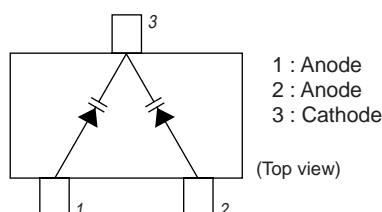
**SVC236**

Varactor Diode for FM Receiver Electronic Tuning Use

Features

- Low voltage (6.5V).
- Twin type varactor diode with good large-signal characteristics for FM receiver electronic tuning use.
- Very small package permits SVC236-applied sets to be compact and slim.
- Can be also provided in tape reel package and automatic insertion is supported.
- High capacitance ratio ($V_R=1.0$ to 6.5V).

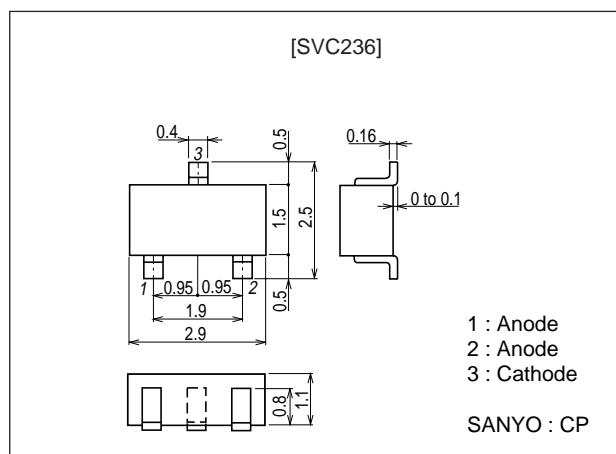
Electrical Connection



Package Dimensions

unit : mm

1169A



Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		16	V
Junction Temperature	T_J		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	16			V
Reverse Voltage	I_R	$V_R=10\text{V}$			50	nA
Interterminal Capacitance*	C1V	$V_R=1.0\text{V}$, $f=1\text{MHz}$ *	92.07		102.12	pF
	C3.0V	$V_R=3.0\text{V}$, $f=1\text{MHz}$	35.14		41.98	pF
	C6.5V	$V_R=6.5\text{V}$, $f=1\text{MHz}$	14.44		16.84	pF
Quality Factor	Q	$V_R=3.0\text{V}$, $f=100\text{MHz}$	70			
Capacitance Ratio	CR	C1.0V / C6.5V	5.0			
Matching Tolerance	ΔC_m	$V_R=1.0\text{V}$, 3.0, 6.5, $f=1\text{MHz}$ ($C_{\text{max}}-C_{\text{min}}$) / $C_{\text{min}} \times 100$			3.0	%

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

Marking : ZV

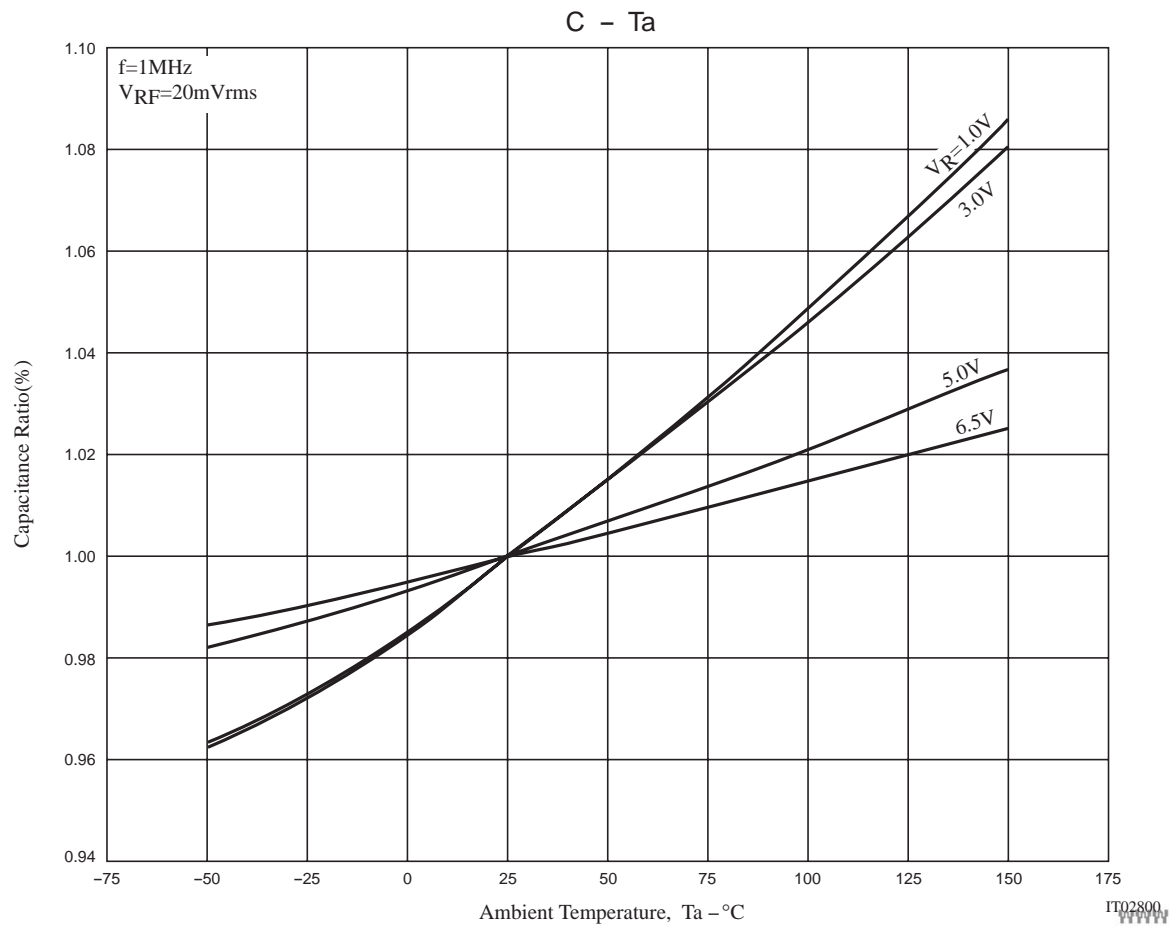
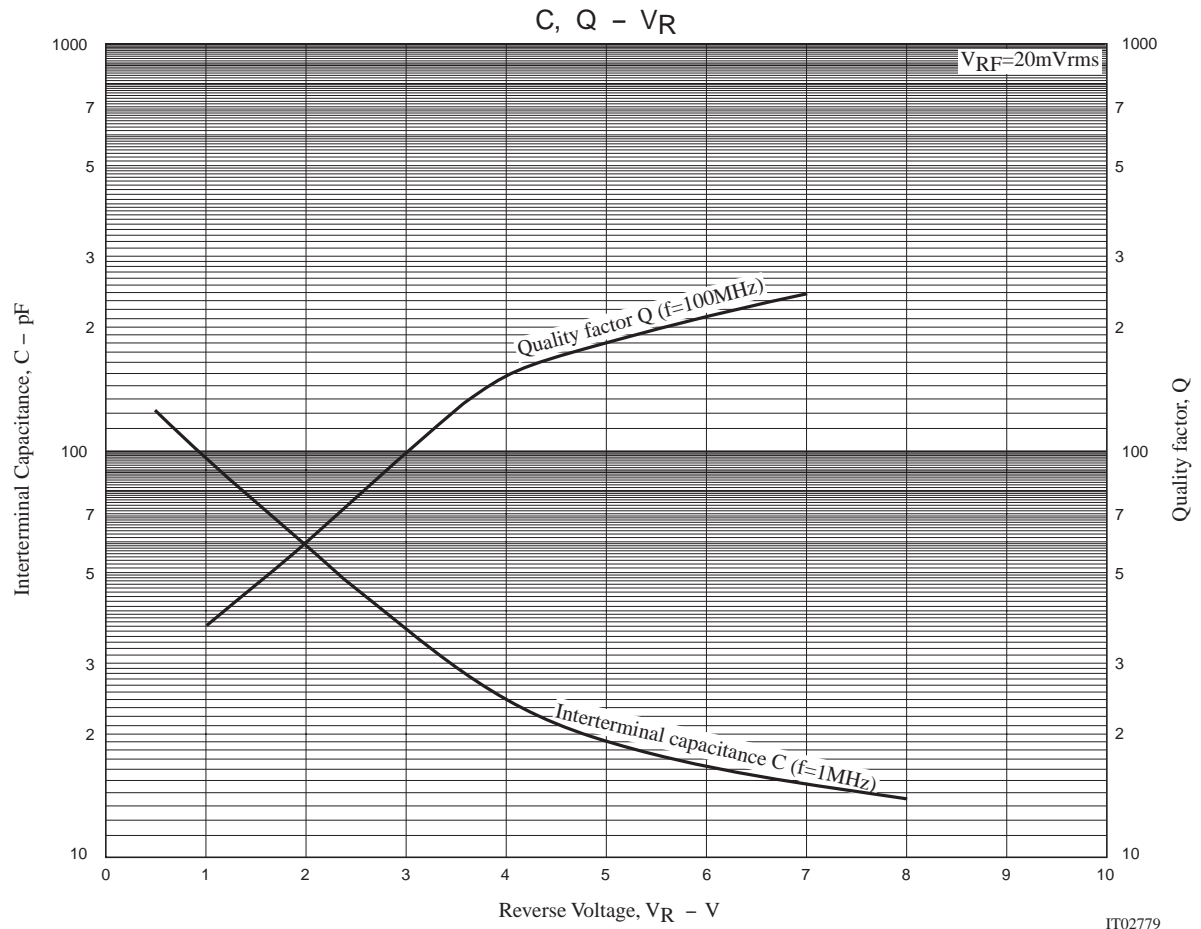
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SVC236



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