

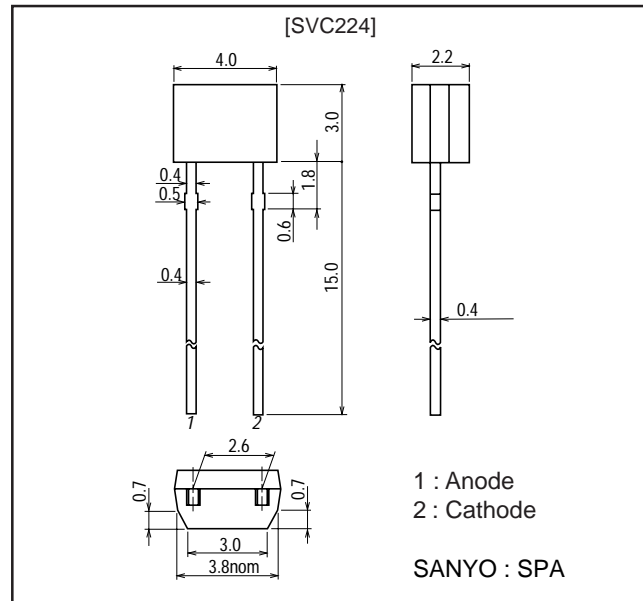
SANYO**Varactor Diode for VCO****Features**

- High capacitance ratio.
- Best suited for VCO use.

Package Dimensions

unit : mm

1184

**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	$^\circ\text{C}$

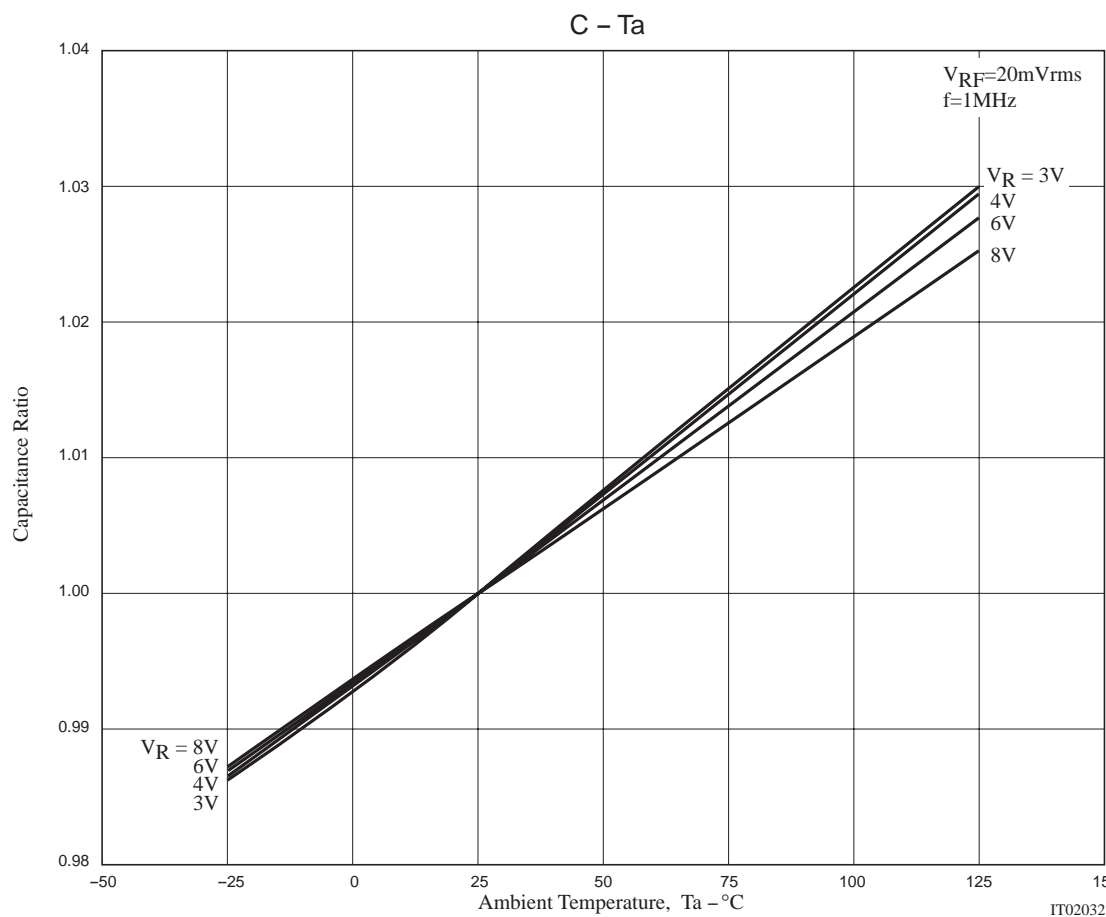
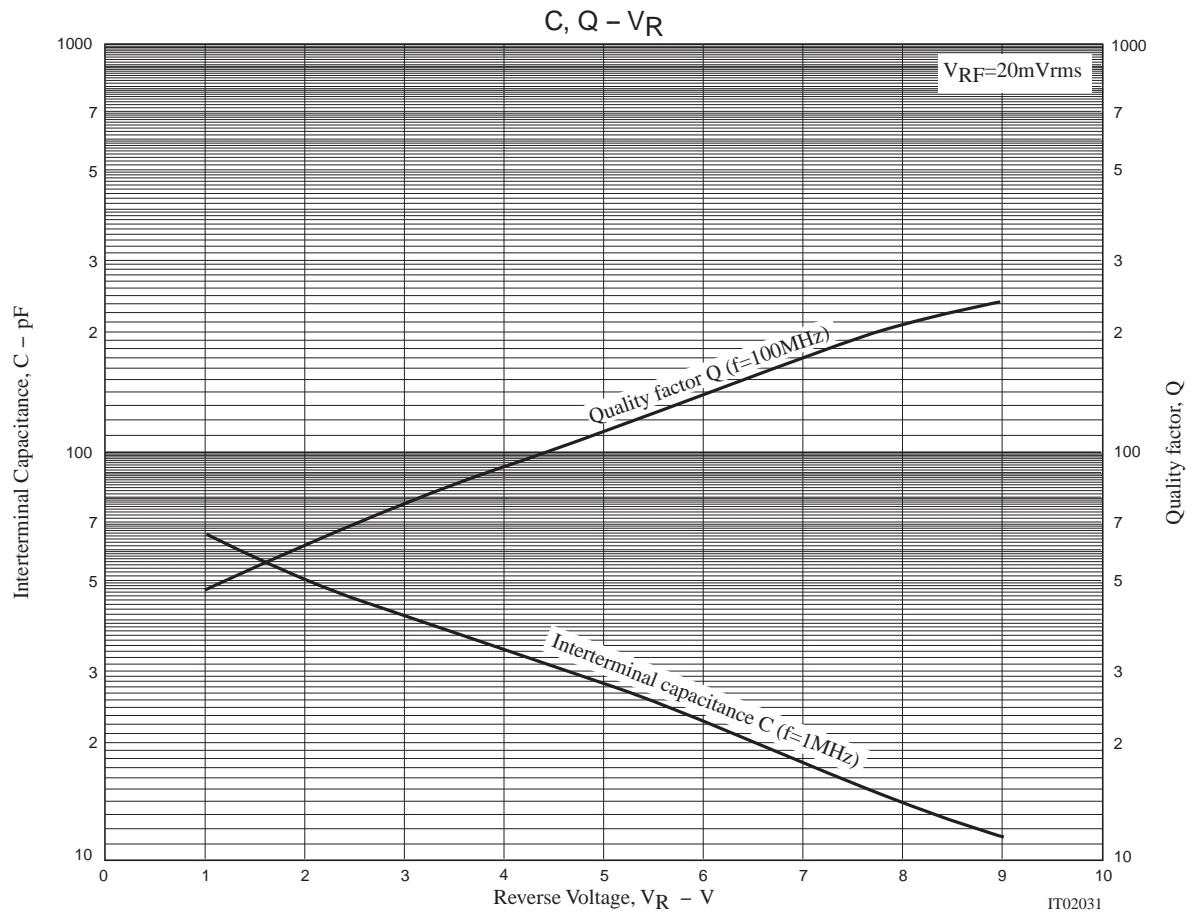
Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings		Unit
			min	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	16		V
Reverse Current	I_R	$V_R=10\text{V}$		50	nA
Interterminal Capacitance	$C_{1.0V}$	$V_R=1.0\text{V}$, $f=1\text{MHz}$ ✳	51.0	76.0	pF
	$C_{6.0V}$	$V_R=6.0\text{V}$, $f=1\text{MHz}$	16.0	29.0	pF
	$C_{9.0V}$	$V_R=9.0\text{V}$, $f=1\text{MHz}$	9.5	15.5	pF
Capacitance Ratio	CR	$C_{1.0V} / C_{9.0V}$	4.6	5.8	
Quality Factor	Q	$V_R=3.0\text{V}$, $f=100\text{MHz}$	60		

✳ : 1MHz signal : 20mVrms

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