



Hyperabrupt Junction Type GaAs Varactor Diode

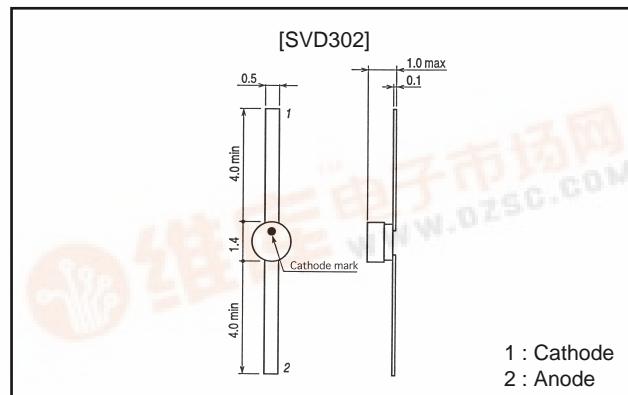
SVD302**X Band VCO, PLO****Features**

- High Q.
- High capacitance ratio.

Package Dimensions

unit: mm

1274

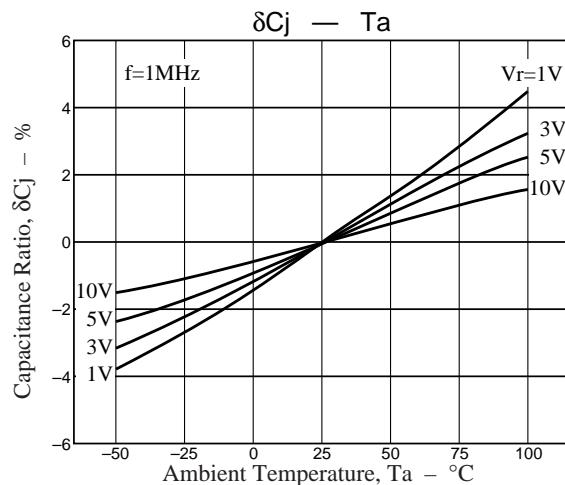
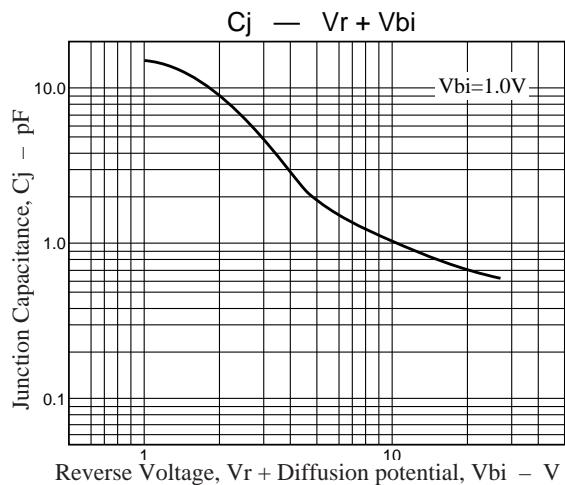
**Specifications****Absolute Maximum Ratings** at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
Peak Reverse Voltage	V _{rm}				30	V
Average Rectified Current	I _{fm}				50	mA
Allowable Power Dissipation	P _D				500	mW
Junction Temperature	T _j				150	°C
Storage Temperature	T _{stg}				-65 to +150	°C
Mounting Temperature	T _m				230/10s	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V _F	I _F =10mA			1.4	V
Reverse Voltage	V _R	I _R =10μA	-27			V
Reverse Current	I _R	V _R =25V			500	nA
Interterminal Capacitance	C _{toV}	V _R =0V, f=1MHz	13	15		pF
Capacitance Ratio	C _{j0V} / C _{j25V}	V _R =0V, 25V, f=1MHz	17	20		

SVD302



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