

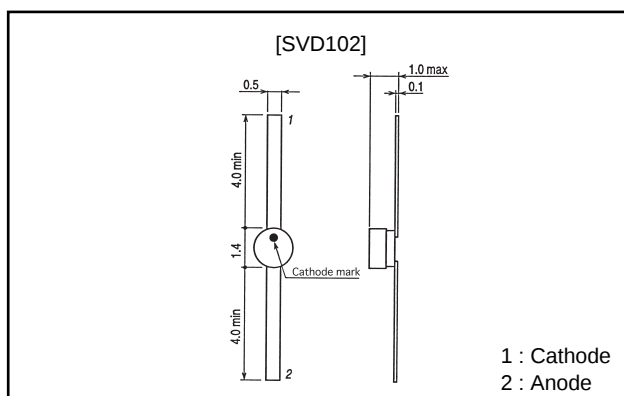
Hyperabrupt Junction Type GaAs Varactor Diode

**SVD102****X Band VCO, PLO****Features**

- High Q.
- High capacitance ratio.

Package Dimensions

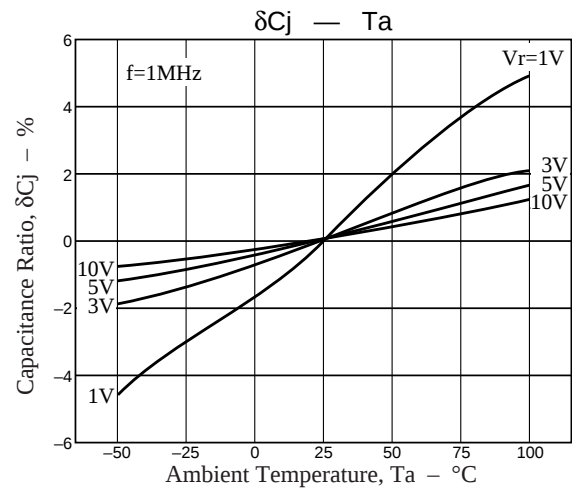
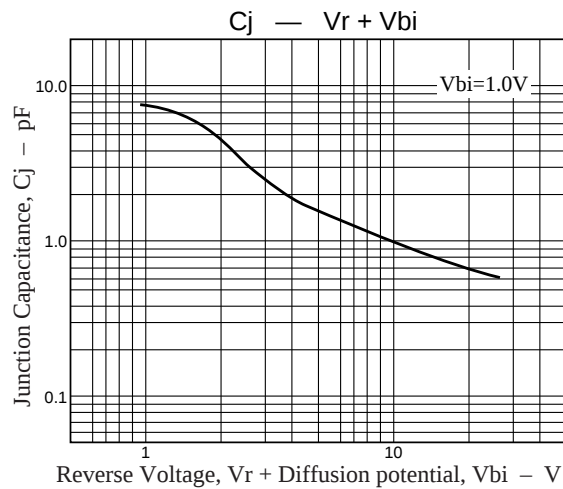
unit: mm

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	$I_F=10\text{mA}$			1.4	V
Reverse Voltage	V_R	$I_R=10\mu\text{A}$	-27			V
Reverse Current	I_R	$V_R=25\text{V}$			100	nA
Interterminal Capacitance	C_{t0V}	$V_R=0\text{V}$, $f=1\text{MHz}$	5	7		pF
Capacitance Ratio	C_{j0V} / C_{j25V}	$V_R=0\text{V}$, 25V , $f=1\text{MHz}$	5	8		



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