

Hyperabrupt Junction Type GaAs Varactor Diode

SVD301



X Band VCO, PLO

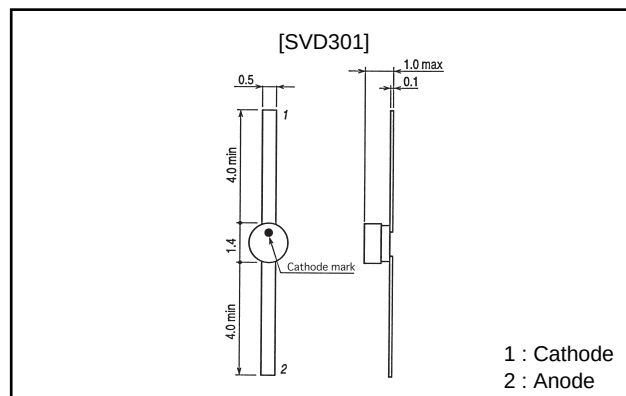
Features

- High Q.
- High capacitance ratio.

Package Dimensions

unit: mm

1274



Specifications

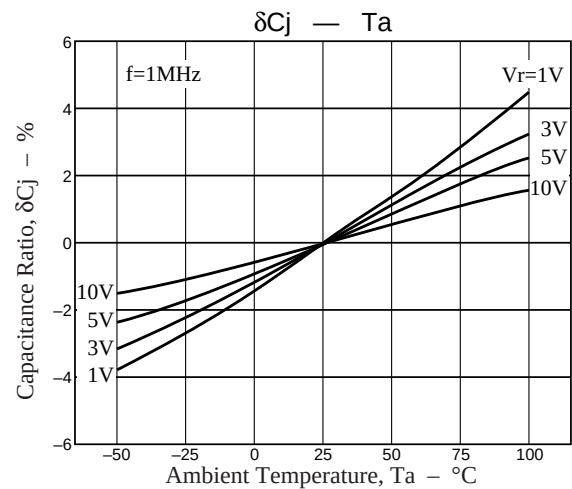
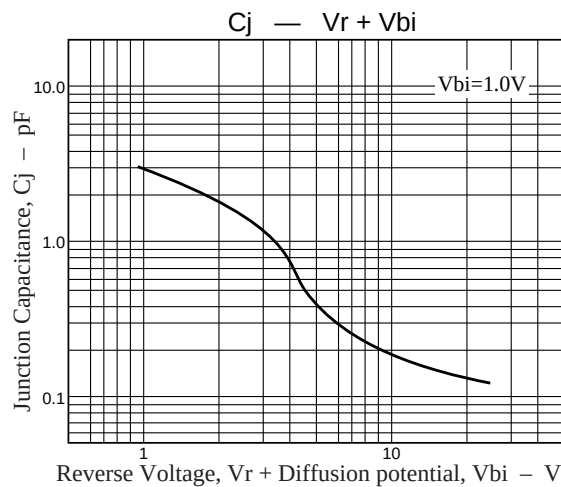
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{rm}		30	V
Average Rectified Current	I_{fm}		30	mA
Allowable Power Dissipation	P_D		200	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	$I_R=10\mu A$	-27			V
Reverse Current	I_R	$V_R=25V$			250	nA
Interterminal Capacitance	C_{t0V}	$V_R=0V, f=1MHz$	2.2	2.6		pF
Capacitance Ratio	C_{j0V} / C_{j25V}	$V_R=0V, 25V, f=1MHz$	17	20		



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