

SVC344

Silicon Diffused Junction Type
Varactor Diode
for AM Low-Voltage Electronic Tuning

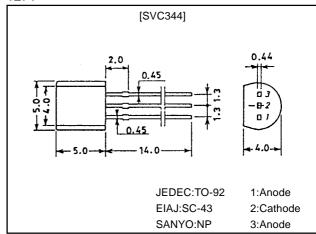
Features

- Twin type varactor diode for low-voltage AM electronic tuning applications.
- · Low operating voltage (≤4.5V).
- · High Q.

Package Dimensions

unit:mm

1271



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_{R}		30	V
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

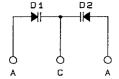
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Breakdown Voltage	V _{(BR)R}	I _R =10μA	30			V
Reverse Current	I _R	V _R =20V			100	nA
Interterminal Capacitance*1	C _{1.0V}	V _R =1.0V, f=1MHz*2	410.0	430.0	445.0	pF
	C _{3.0V}	V _R =3.0V, f=1MHz	70.0	95.0	120.0	pF
	C _{4.5V}	V _R =4.5V, f=1MHz	210.0	23.5	26.0	pF
Quality Factor	Q	V _R =1.0V, f=1MHz	200			
Capacitance Ratio	CR	C _{1.0V} /C _{4.5V}	15.0			
Matching Tolerance*3	∆C _m 1	V _R =1.0V, f=1MHz			2.0	%
	ΔC _m 2	V _R =3.0V, f=1MHz			3.0	%
	∆C _m 3	V _R =4.5V, f=1MHz			3.0	%

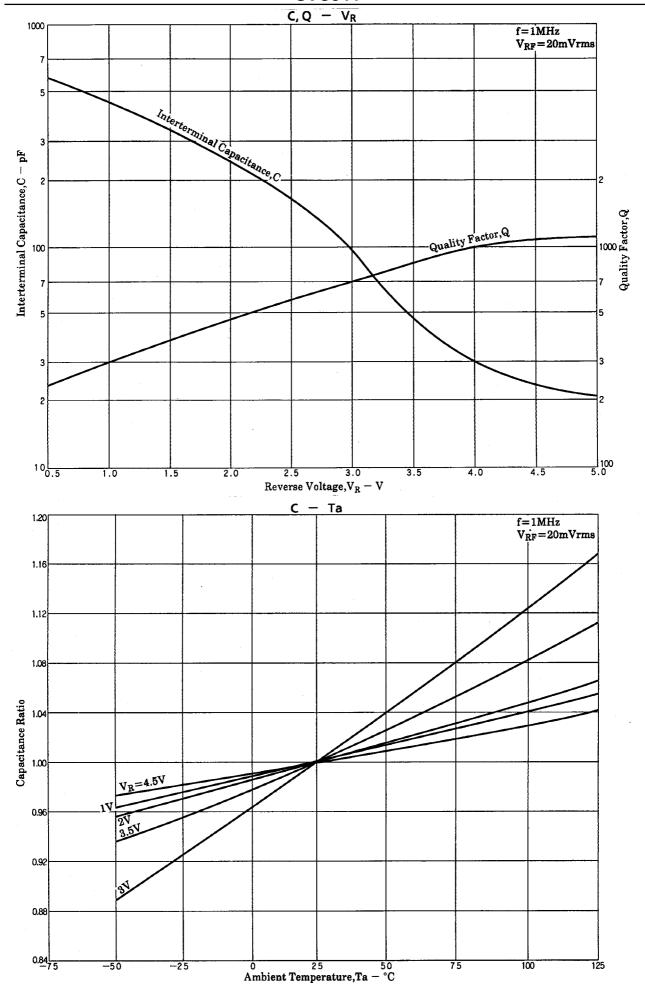
Note)*1:The value of interterminal capacitance represent the average of mesurements for tow elements.

Note)*2:1MHz signal:20mVrms

Note)*3: $\Delta C_m = (C_{max} - C_{min})/C_{min} \times 100$ Between D1 and D2

Electrical Connection





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