Ordering number :EN5345



SVC344

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

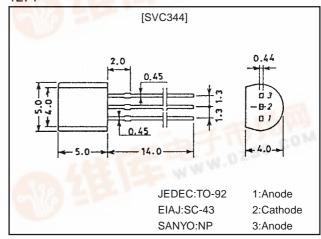
Features

- Twin type varactor diode for low-voltage AM electronic tuning applications.
- · Low operating voltage (≤ 4.5 V).
- · 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	- 1. Care 14	-55 to +125	°C

Electrical Characteristics at Ta = 25°C

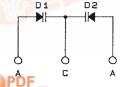
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Breakdown Voltage	V _{(BR)R}	I _R =10μA	30			V
Reverse Current	IR	V _R =20V			100	nA
Interterminal Capacitance*1	C _{1.0V}	V _R =1.0V, f=1MHz*2	410.0	430.0	445.0	pF
	C _{3.0V}	$V_R=3.0V$, f=1MHz	70.0	95.0	120.0	pF
	C _{4.5} V	V _R =4.5V, f=1MHz	210.0	23.5	26.0	pF
Quality Factor	Q	V _R =1.0V, f=1MHz	200		100	
Capacitance Ratio	CR	C _{1.0V} /C _{4.5V}	15.0		40.7	;0 m
Matching Tolerance*3	∆C _m 1	V _R =1.0V, f=1MHz	-	M . D 7	2.0	%
	ΔC _m 2	V _R =3.0V, f=1MHz	111.41		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

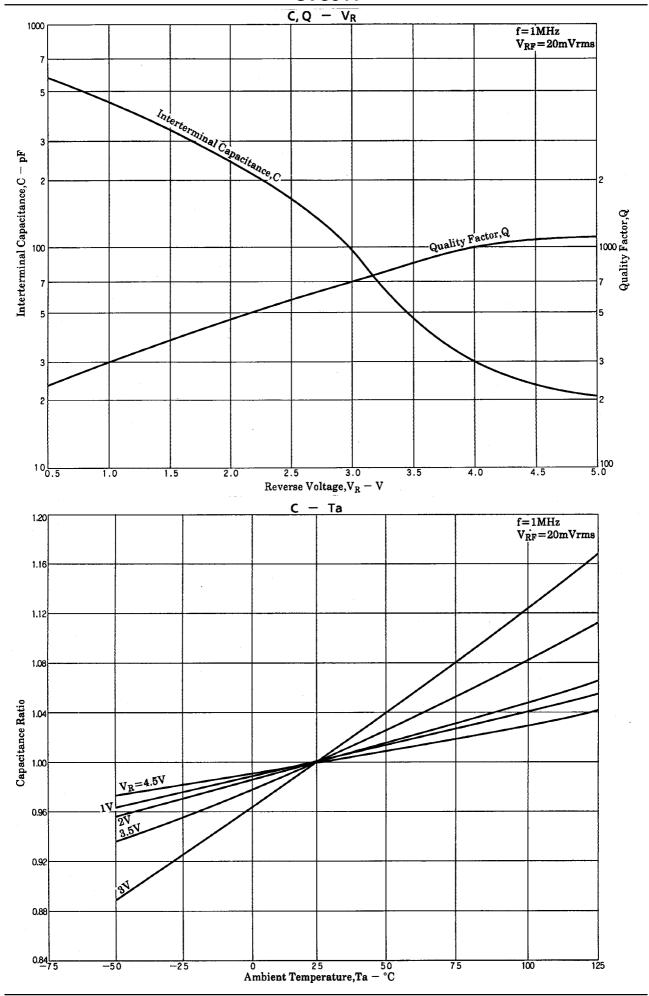
Note)*3: $\Delta C_{m} = (C_{max} - C_{min})/C_{min} \times 100$ Between D1 and D2

Electrical Connection



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