



SVC346

Silicon Diffused Junction Type
Varactor Diode

for AM Low-Voltage Electronic Tuning

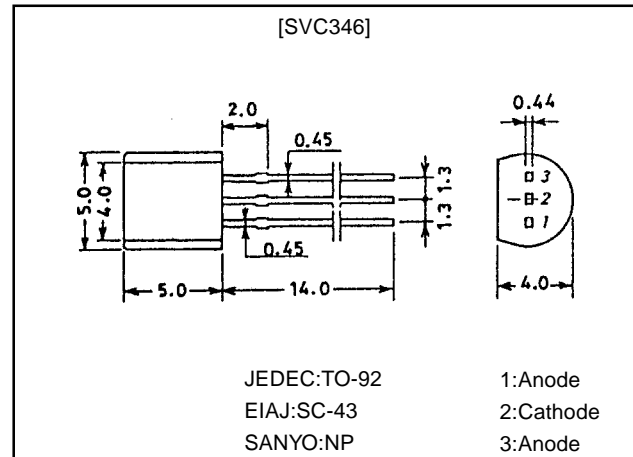
Features

- Twin type varactor diode for low-voltage AM electronic tuning applications.
- Low operating voltage(≤6.5V).
- High Q.

Package Dimensions

unit:mm

1271



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V _R		33	V
Junction Temperature	T _J		125	°C
Storage Temperature	T _{stg}		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	V _{(BR)R}	I _R =10μA	33			V
Reverse Current	I _R	V _R =20V			100	nA
Interterminal Capacitance*1	C _{1.0V}	V _R =1.0V, f=1MHz*2	460.0*		540.0*	pF
	C _{4.5V}	V _R =4.5V, f=1MHz		64.0		pF
	C _{6.5V}	V _R =6.5V, f=1MHz	21.0		27.0	pF
Quality Factor	Q	V _R =1.0V, f=1MHz	200			
Capacitance Ratio	CR	C _{1.0V} /C _{6.5V}	17.5		24.5	
Matching Tolerance	ΔC _m	(C _{max} -C _{min})/C _{min} ×100 (Between D1 to D2) V _R =1V to 6.5V			2.0	%

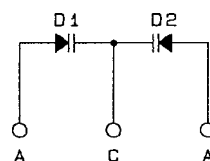
Note)*1: The value of interterminal capacitance represent the average of measurements for tow elements.

Note)*2: 1MHz signal: 20mV_{rms}

Note)*: The SVC346 are classified by C_{1.0V} as follows:

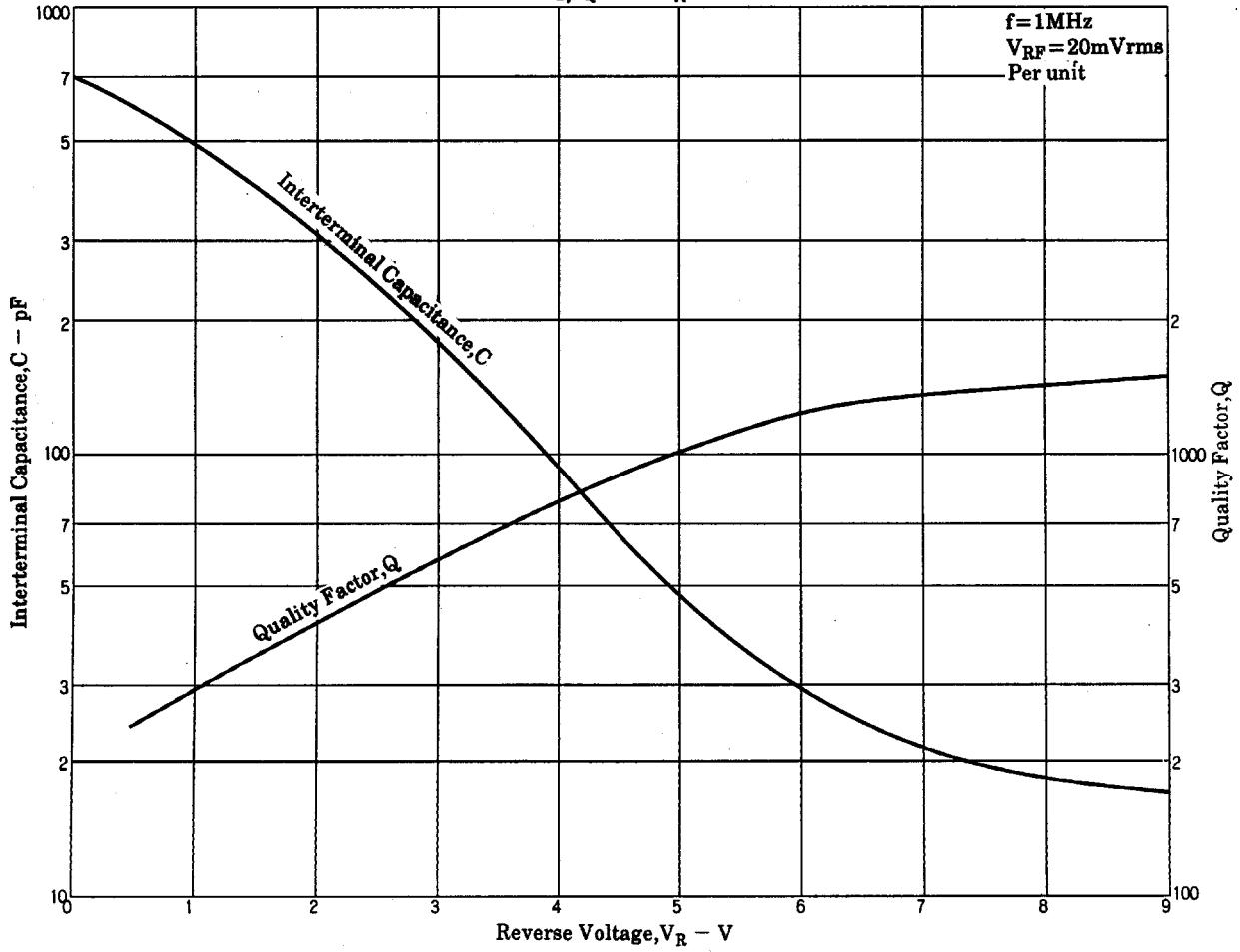
Rank	C _{1.0V} (pF)
R	460.0 to 491.0
S	482.0 to 515.0
T	505.0 to 540.0

Electrical Connection

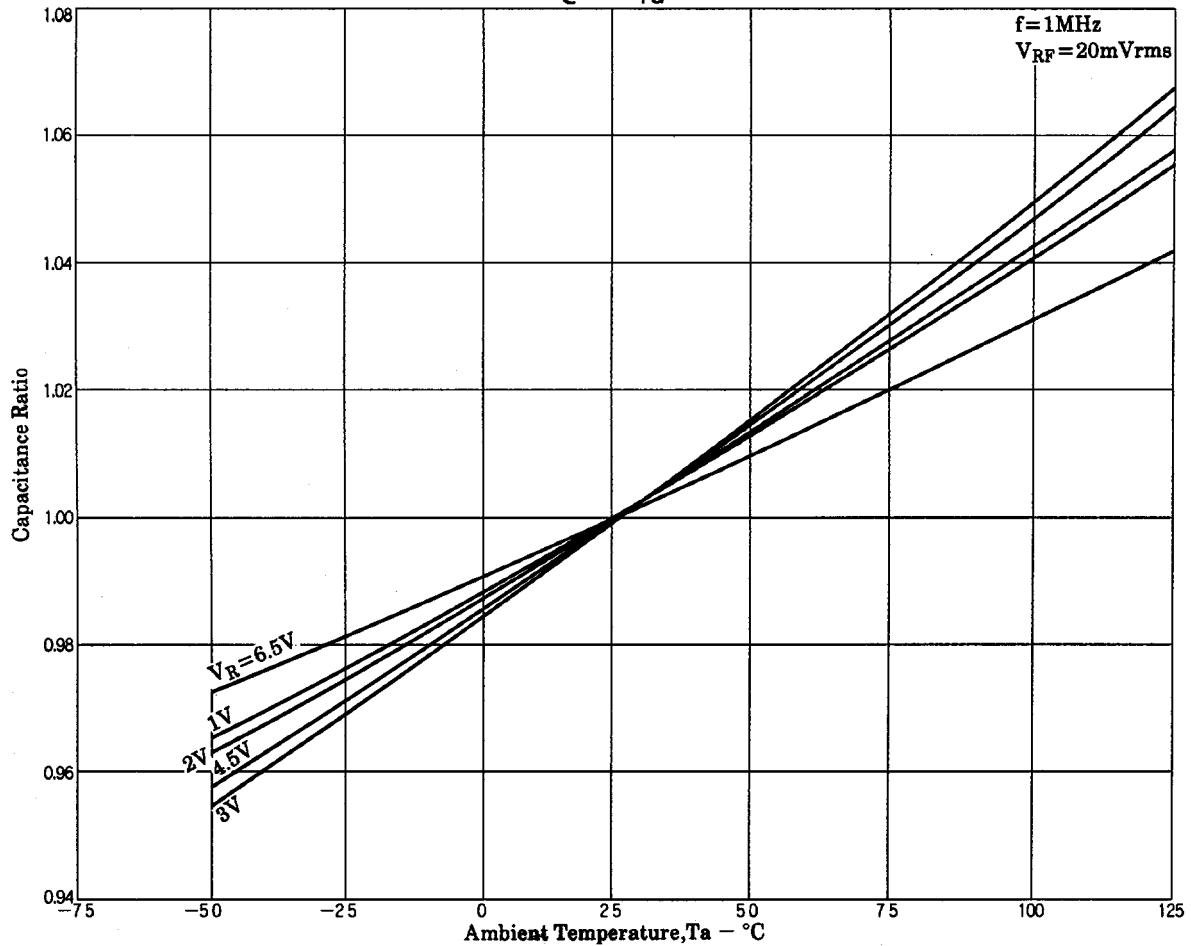


SVC346

C, Q - V_R



C - T_a



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