

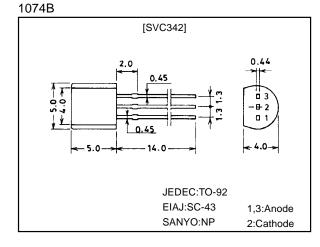
SVC342 Diffused Junction Type Silicon Diode Varactor Diode for AM Receiver Electronic Tuning Use

Features

- Twin type varactor diode for low-voltage AM electronic tuning use.
- · High capacitance ratio.
- \cdot Excellent linearity of C-V characteristic.
- · High Q.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		100	°C
Storage Temperature	Tstg		-55 to +100	°C

Electrical Characteristics at Ta = 25°C

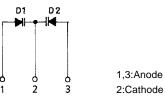
Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Breakdown Voltage	V _(BR) R	I _R =10µA	16			V
Reverse Current	IR	V _R =9V			100	nA
Interterminal Capacitance*	C _{1V}	V _R =1V, f=1MHz	423.0		503.0	pF
	C _{6V}	V _R =6V, f=1MHz	46.0		61.0	pF
	C _{9V}	V _R =9V, f=1MHz	17.5		23.5	pF
Quality Factor	Q	V _R =1V, f=1MHz	200			
Capacitance Ratio	CR	C _{1V} /C _{9V}	19.5			
Matching Tolerance	ΔC _m	(C _{max} -C _{min})/C _{min} , (Between D1 to D2) V _R =1V to 9V			0.02	

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

Note)*:The SVC342 is classified by C_{1V} as follows:

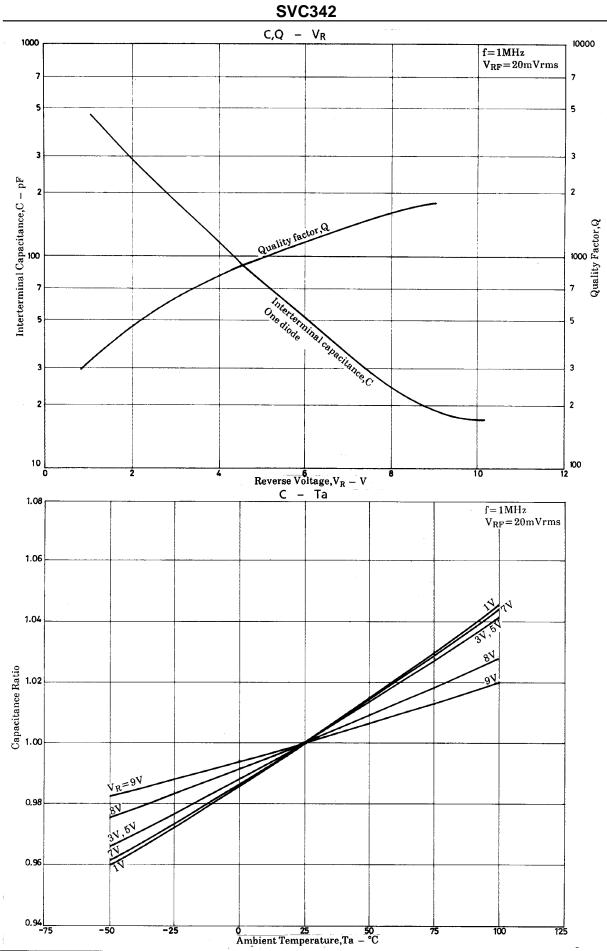
Rank	C _{1V} (pF)	
K	423.0 to 455.0	
L	445.0 to 478.0	
М	468.0 to 503.0	

Electrical Connection



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