Ordering number :EN4274A



SVC354

Diffused Junction Type Sillicon Diode

Composite Varactor Diode for AM Receiver **Low-Voltage Electronic Tuning Applications**

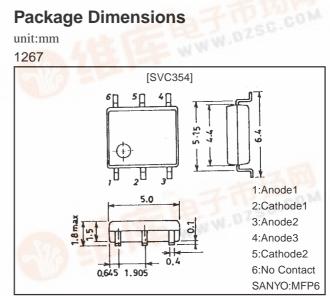
Features

- · Excellent matching characteristics because of composite type.
- · Manufacturing processes reducible and automatic mounting supported.
- · High capacitance ratio and high quality factor.
- · Capacitance separated in RF and OSC.
- · Tape reel packaging.
- · Surface mount type.

Package Dimensions

unit:mm

1267



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V _R		16	V
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg	- alla Calina Like	-55 to +125	°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 (One diode)	IR	V _R =9V			100	nA
Interterminal Capacitance (Average)	C _{1V}	V _R =1V, f=1MHz*1	460.0*		540.0*	pF
	C _{6V}	V _R =6V, f=1MHz		52.0		pF
	C _{8V}	V _R =8V, f=1MHz	21.0		27.0	pF
Quality Factor	Q	V _R =1V, f=1MHz	200	1 5	1770	
Capacitance Ratio	CR	C _{1V} /C _{8V} , f=1MHz	17.5		24.5	; D ==
Matching Tolerance	ΔC _m *2	V _R =1V to 8V, f=1MHz		41.07	±2.5	%

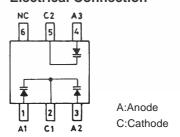
Note)*1:1MHz signal:20mVrms

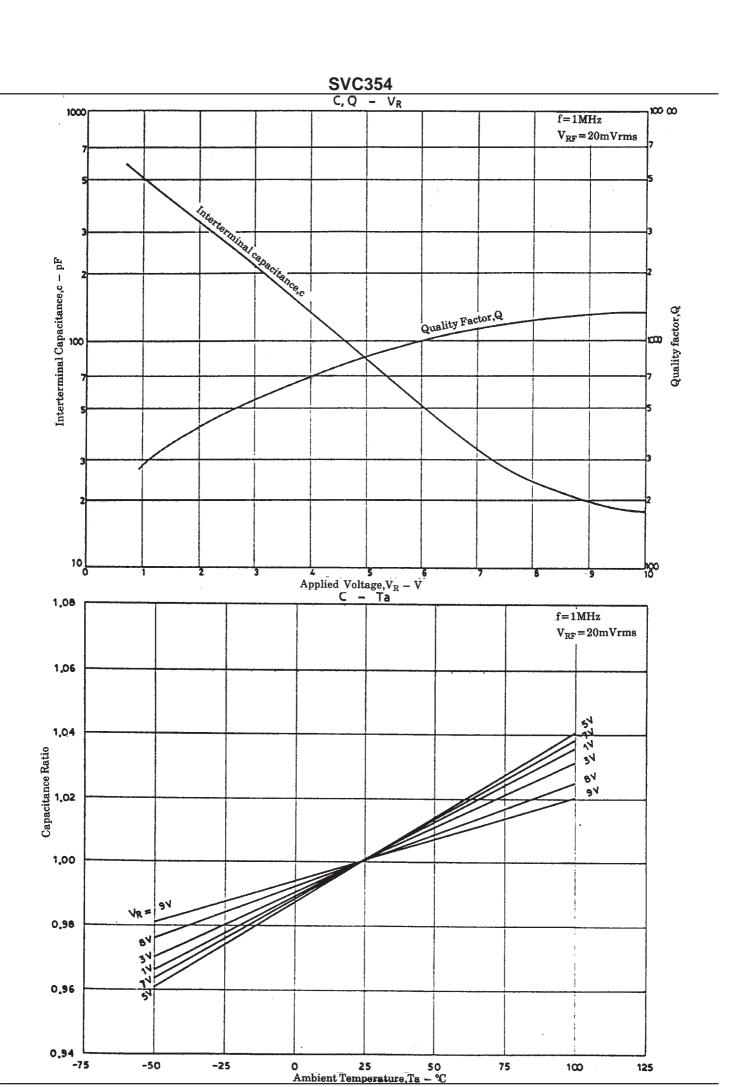
Note)*2: Δ_{Cm} = (C_{Dn} - C_{D3}) / C_{D3} ×100

Note)*:The SVC354 is classified by C_{1V} as follows:

Rank	C _{1V} (pF)	
R	460.0 to 491.0	
S	482.0 to 515.0	
Т	505.0 to 540.0	

Electrical Connection





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