

SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company



Si Monolithic Linear IC Oscillator IC for Laser Diode Noise Suppression Applications

Features

- · Frequency specification with LC : Added LC sets the operating frequency
- Ultra small package : 1.6×1.6×0.56mm
- Halogen free compliance

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Supply Voltage	VCC		6	V
Circuit Current	ICC		50	mA
Power Dissipation	PD		280	mW
Operating Temperature	Topr		-40 to +85	°C
Storage Temperature	Tstg		-55 to +150	°C

Package Dimensions

unit : mm (typ) 7028-008



Product & Package Information

• Package : So	CH6
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• JEITA, JEDEC : SOT-563

• Minimum Packing Quantity : 5,000 pcs./reel

Packing Type : TL

Marking





Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Supply Voltage	Vcc		3	5	5.5	V

Electrical Characteristics at Ta=25°C

Daramator	Sumbol	Conditions	Ratings			Unit
Parameter	Symbol	Conditions	min	typ	max	
Circuit Current	ICC		29	34	39	mA
Oscillating Power	Posc	VCC=5V, RL=5022, IOSC=400IVIHZ	4.5	6.4	8.5	dBm
Tororopoo of Occillating Fraguency	fmod	V _{CC} =5V, R _L =50Ω,	-10		10	%
Toterance of Oscillating Frequency		Specified Test Circuit (L=47nH, C=10pF)				

Note 1 : Oscillation frequency mainly depends on the external LC (The LC is attached additionally to the LC terminal in series). Note 2 : Recommended oscillation frequency 350MHz to 450MHz.

Test Circuit



Ordering Information

<u> </u>				
Device	Device Package		memo	
SMA4306-TL-H	SCH6	5,000pcs./reel	Pb Free and Halogen Free	





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Taping Specification SMA4306-TL-H

1. Packing Format

Package Name	Carrier Tape	Maximum Number of devices contained (pcs)		rof ed (pcs)	Packing format		
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1) Outer BOX (A-7)		
SCH6	SCH6	5,000	25,000	150,000	5 reels contained 6 inner boxes contained		
					Dimensions:mm (external) Dimensions:mm (external)		
					183×72×185 440×195×210		
Packing met	hod Type LOT Quan Orig Reel la	No. No. tity in tbel	$\frac{\text{Reel}}{\text{Reel}}$	1 a b e 1, I (u 1 (u 1) (u 2) (u 2)	Inner box label Outer box label n i t :mm) It is a label at the time of factory shipments The form of a label may change in physical distribution process. 59 108 000000 It is a construction process. It is a construction process. It is a construction process. 000000 It is a construction process. 0000000 It is a constructis construction process. <t< td=""></t<>		

LEAD FREE 4

JEITA Phase 3

2. Taping configuration

2-1. Carrier tape size (unit:mm)



Those with pin 1 index on the feed hole side \cdots TL

Land Pattern Example

Outline Drawing SMA4306-TL-H



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