



SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

CPH5512 — Silicon Epitaxial Type Pin Diode for VHF, UHF, AGC Applications

Features

- Composite type with 2 diodes contained in a CPH package currently in use, improving the mounting efficiency greatly
- Small interterminal capacitance ($C=0.23\text{pF}$ typ)
- Small forward series resistance ($r_s=5\Omega$ typ)

Specifications

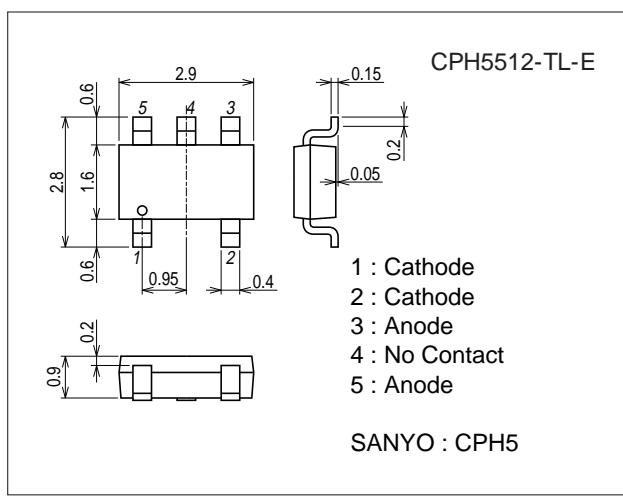
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		50	V
Forward Current	I_F		50	A
Allowable Power Dissipation	P		350	V
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Package Dimensions

unit : mm (typ)

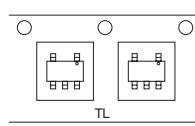
7017A-001



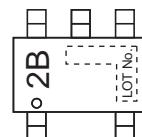
Product & Package Information

- Package : CPH5
- JEITA, JEDEC : SC-74A, SOT-25
- Minimum Packing Quantity : 3,000 pcs./reel

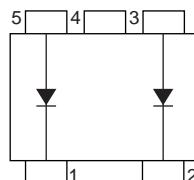
Packing Type : TL



Marking



Electrical Connection



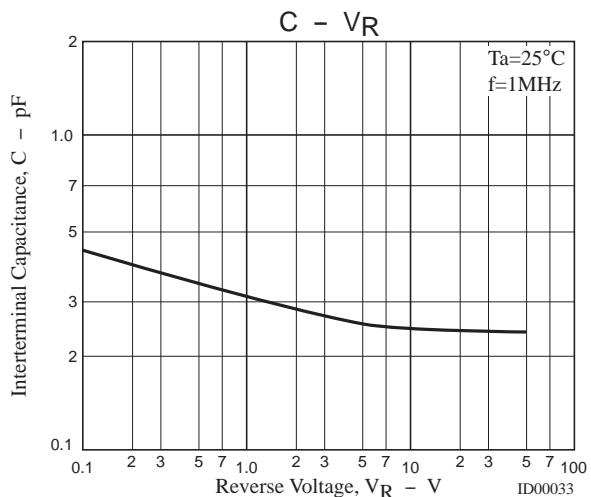
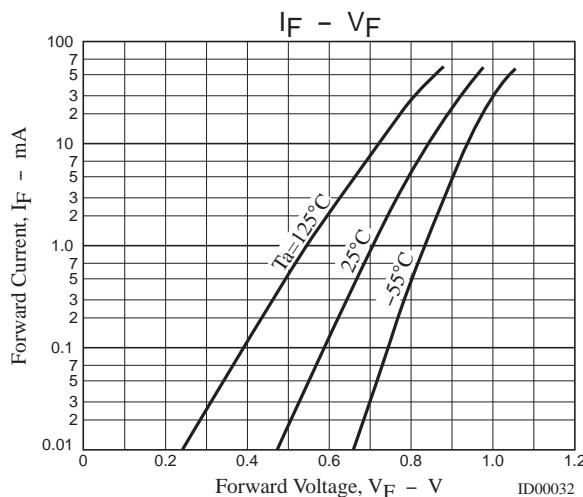
Electrical Characteristics at $T_a=25^\circ\text{C}$

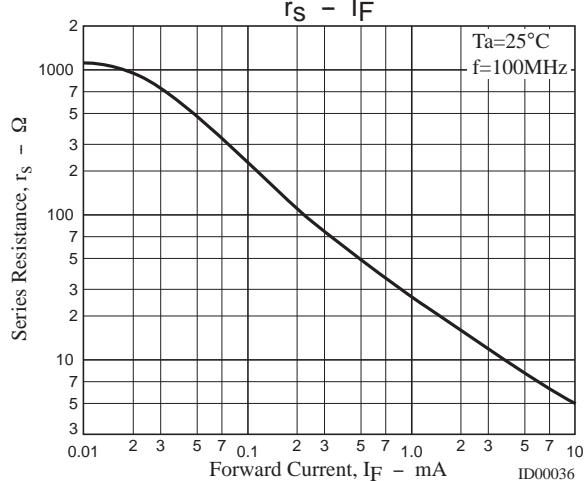
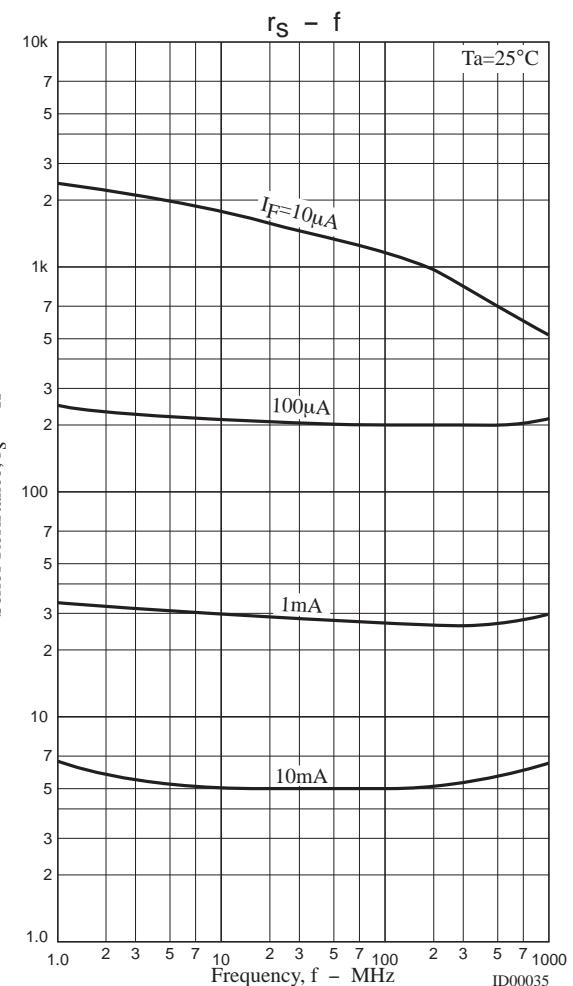
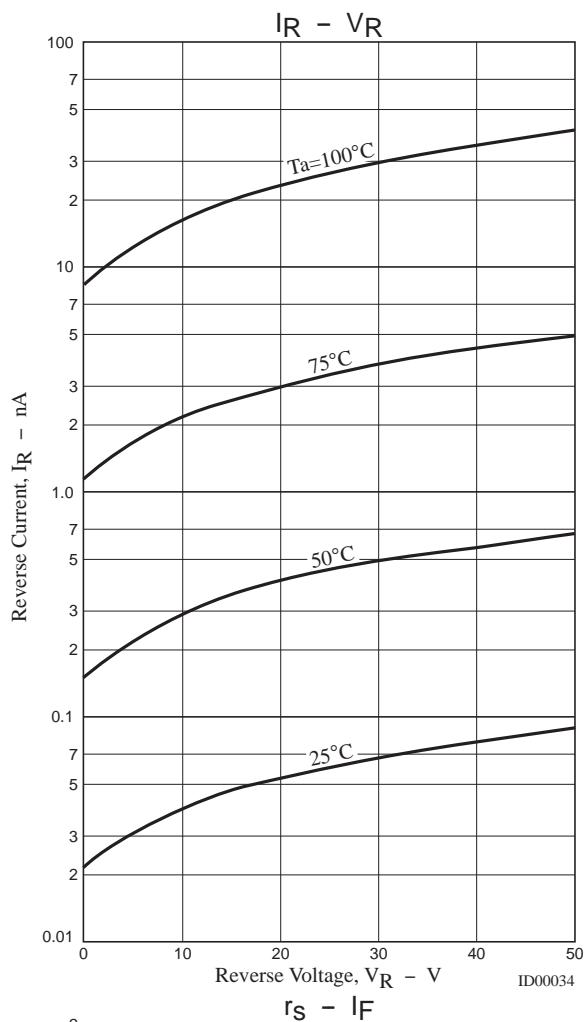
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=10\mu\text{A}$	50			V
Reverse Current	I_R	$V_R=50\text{V}$			0.1	μA
Forward Voltage	V_F	$I_F=50\text{mA}$		0.95		V
Interterminal Capacitance	C	$V_R=50\text{V}, f=1\text{MHz}$		0.23		pF
Series Resistance	r_s	$I_F=10\text{mA}, f=100\text{MHz}$		5		Ω

The specifications shown above are for each individual diode.

Ordering Information

Device	Package	Shipping	memo
CPH5512-TL-E	CPH5	3,000pcs./reel	Pb Free



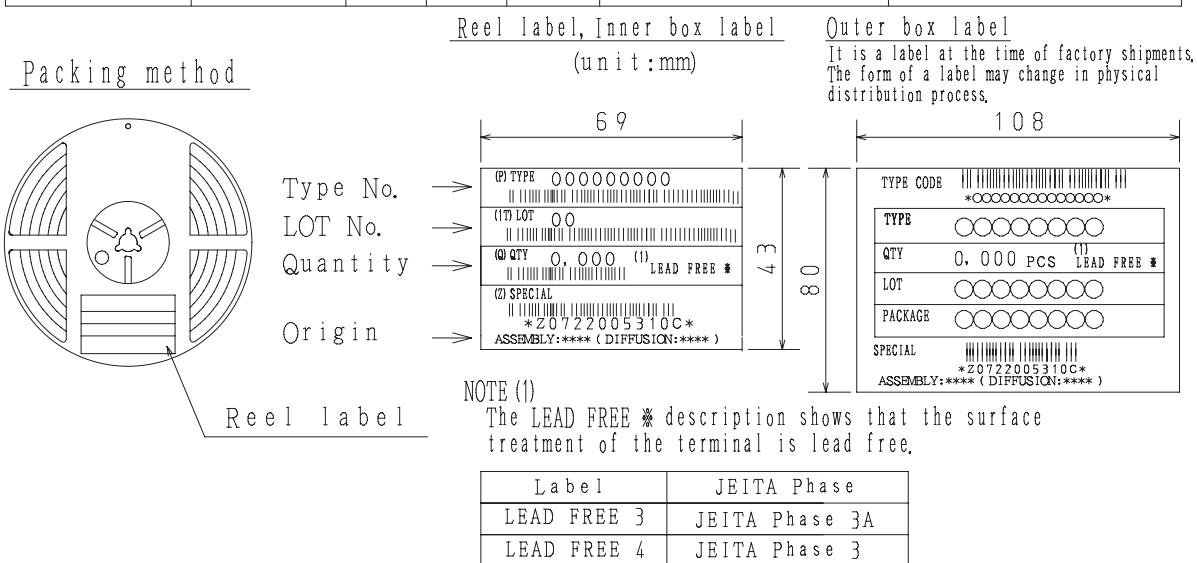


Embossed Taping Specification

CPH5512-TL-E

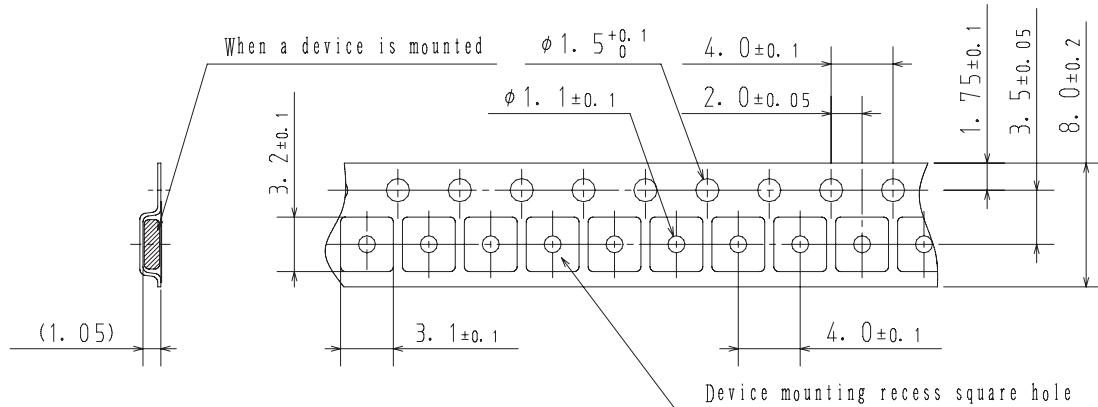
1. Packing Format

Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
CPH5	CPH6	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

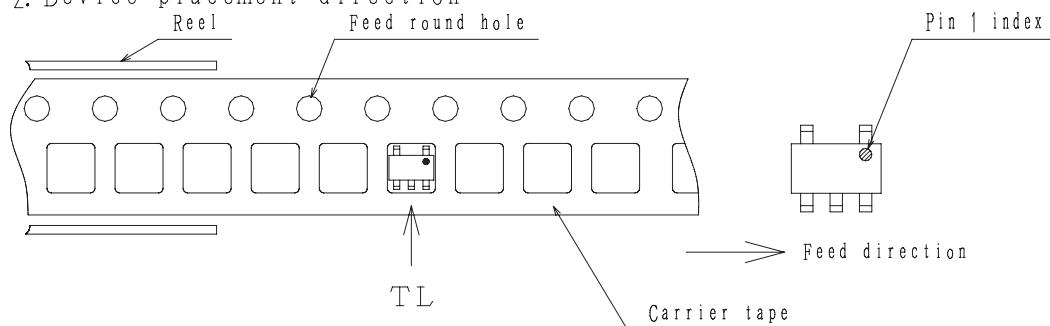


2. Taping configuration

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

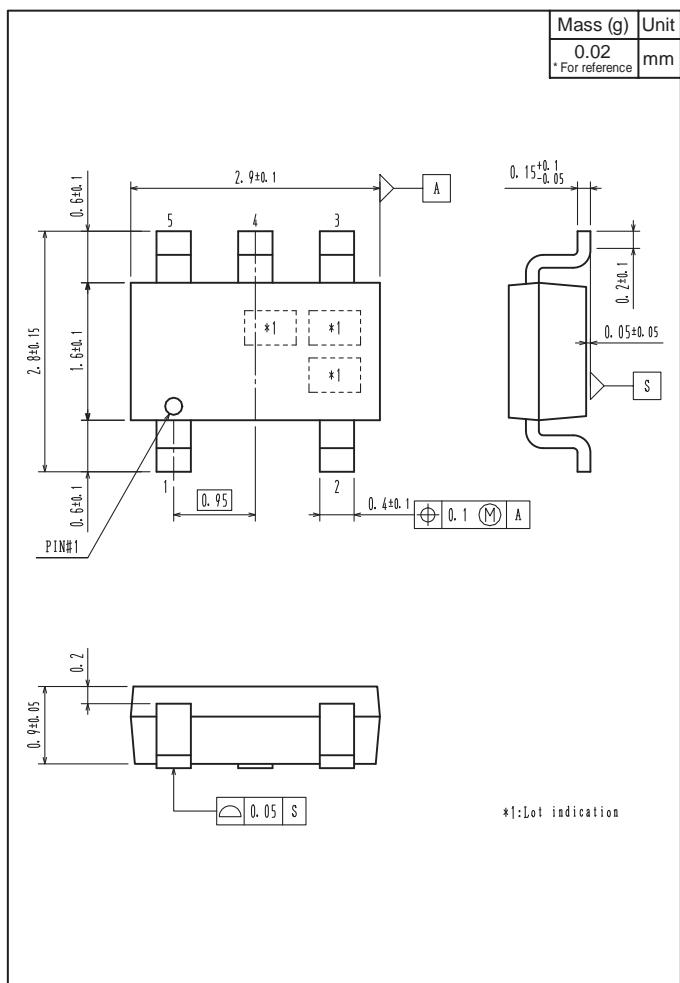


2-2. Device placement direction

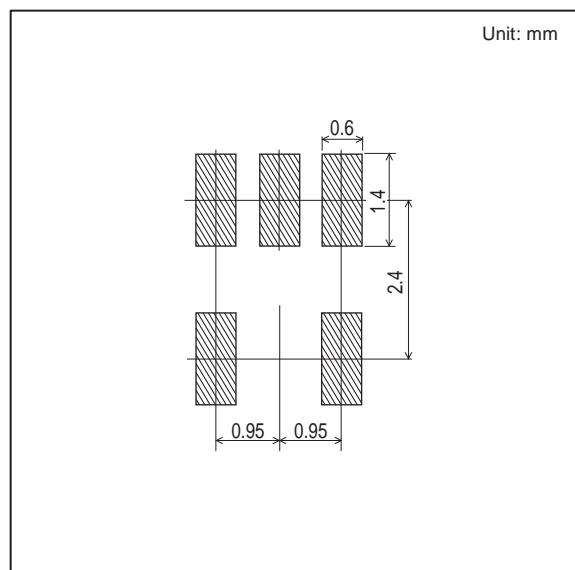


Outline Drawing

CPH5512-TL-E



Land Pattern Example



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