CPH5512

ON Semiconductor®

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PIN Diode

Dual parallel PIN Diode for VHF, UHF and AGC 50V, 50mA, r_s =typ 5 Ω , CPH5

Features

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

Specifications

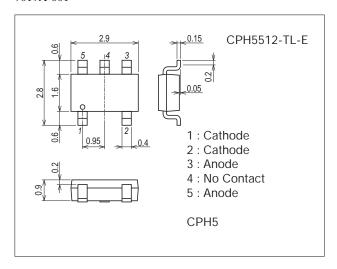
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		50	V
Forward Current	IF		50	Α
Allowable Power Dissipation	Р		350	V
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ) 7017A-001

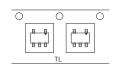


Product & Package Information

• Package : CPH5

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

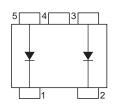
Packing Type : TL



Marking



Electrical Connection



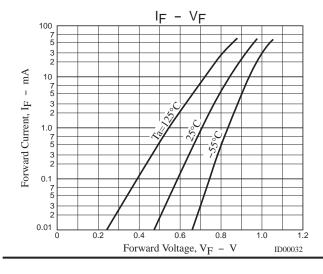
Electrical Characteristics at Ta=25°C

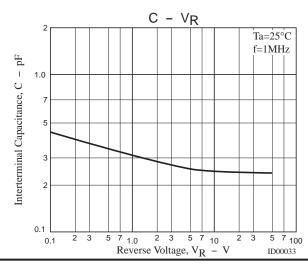
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max) UIIII
Reverse Voltage	VR	I _R =10μA	50			V
Reverse Current	IR	V _R =50V			0.1	μΑ
Forward Voltage	VF	I _F =50mA		0.95		V
Interterminal Capacitance	С	V _R =50V, f=1MHz		0.23		pF
SeriesResistance	r _S	IF=10mA, f=100MHz		5		Ω

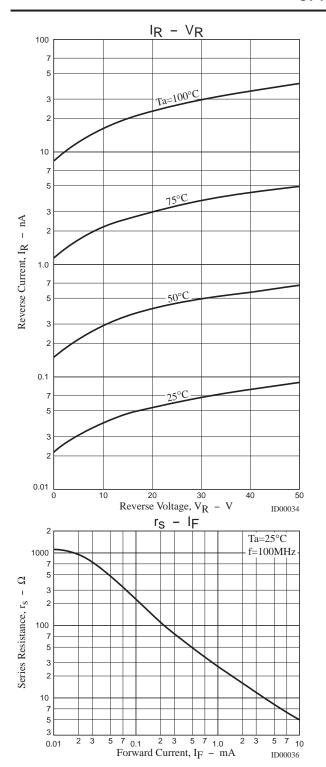
The specifications shown above are for each individual diode.

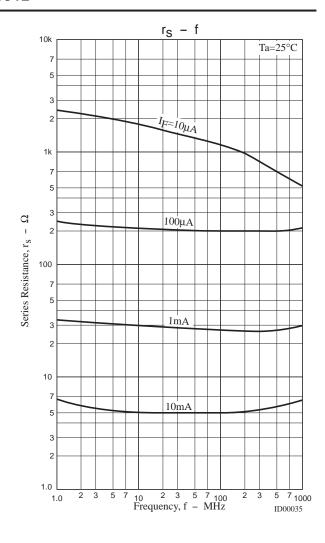
Ordering Information

Device	Package	Shipping	memo	
CPH5512-TL-E	`PH5512-11-E CPH5		Pb Free	







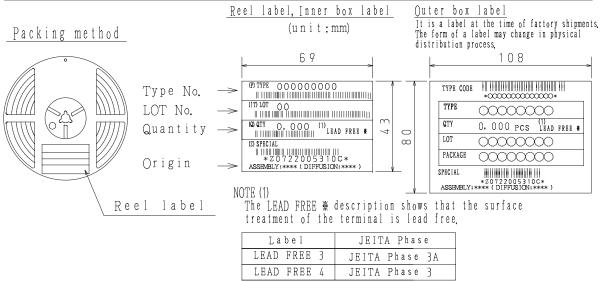


Embossed Taping Specification

CPH5512-TL-E

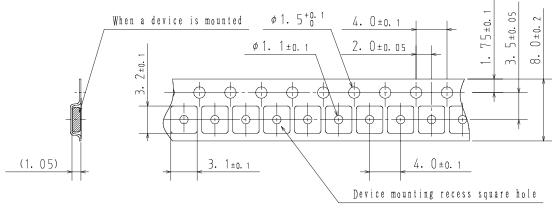
1. Packing Format

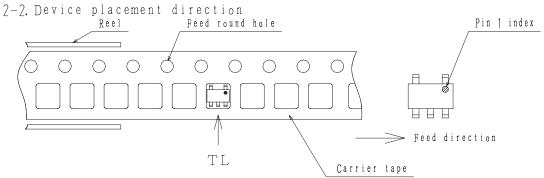
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing	format
	Туре	Reel	Inner box	Outer box	Inner $BOX(C-1)$	Outer BOX (A-7)
CPH5	СРН6	3, 000	15, 000	90,000	5 reels contained	6 inner boxes contained
					Dimensions:mm (external)	Dimensions:mm (external)
					183×72×185	440×195×210



7. Taping configuration

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

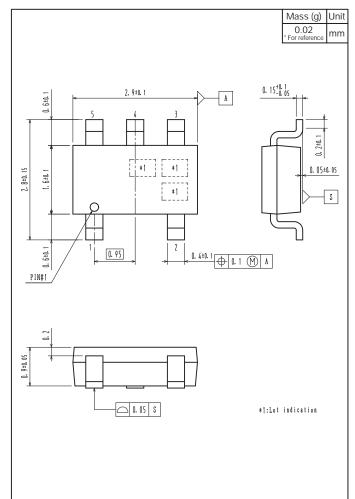




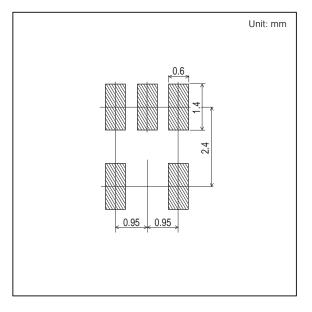
Those with pin 1 index on the feed hole side · · · · · TL

Outline Drawing

CPH5512-TL-E



Land Pattern Example



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