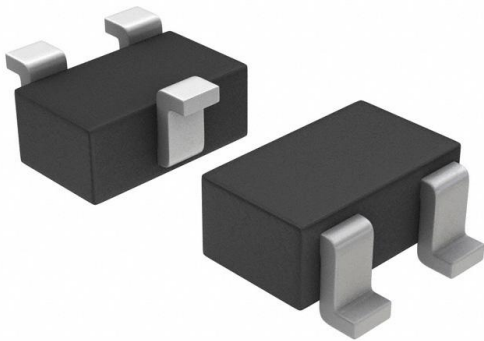


1SV264-TL-E Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	1SV264-TL-E-DG
Manufacturer	onsemi
Manufacturer Product Number	1SV264-TL-E
Description	RF DIODE PIN 50V 100MW 3MCP
Detailed Description	RF Diode PIN - 1 Pair Series Connection 50V 50 mA 100 mW 3-MCP

This model 1SV264-TL-E is available at DiGi Electronics.

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Tel: +00 852-30501935

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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

1SV264-TL-E

Series:

-

Diode Type:

PIN - 1 Pair Series Connection

Current - Max:

50 mA

Resistance @ If, F:

4.5Ohm @ 10mA, 100MHz

Operating Temperature:

125°C (TJ)

Supplier Device Package:

3-MCP

Manufacturer:

onsemi

Product Status:

Active

Voltage - Peak Reverse (Max):

50V

Capacitance @ Vr, F:

0.4pF @ 50V, 1MHz

Power Dissipation (Max):

100 mW

Package / Case:

SC-70, SOT-323

Base Product Number:

1SV264

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.10.0070

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

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Ordering number : EN4511D



ON Semiconductor®

<http://onsemi.com>

1SV264

PIN Diode

Dual series PIN Diode for VHF, UHF and AGC
50V, 50mA, $r_s = \text{typ } 2.5\Omega$, MCP

Features

- Series connection of 2 elements in an ultrasmall package facilitates high-density mounting and permits 1SV264-applied equipment to be made smaller
- Small interterminal capacitance ($C = 0.23\text{pF typ}$)
- Small forward series resistance ($r_s = 2.5\Omega \text{ typ}$)

Specifications

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

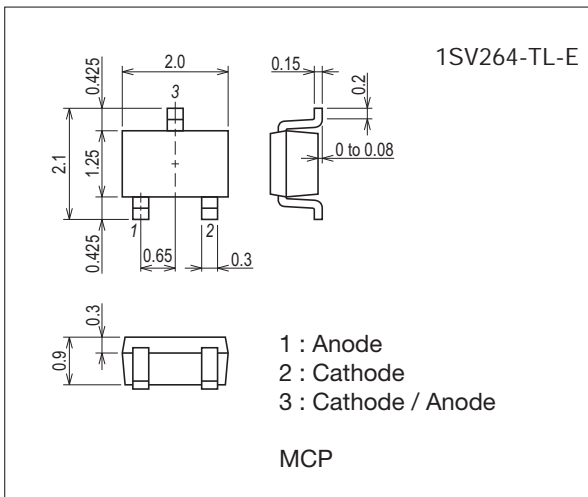
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		50	V
Forward Current	I_F		50	mA
Allowable Power Dissipation	P		100	mW
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

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)

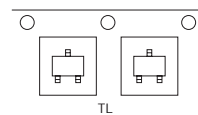
7023A-007



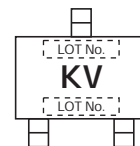
Product & Package Information

- Package : MCP
- JEITA, JEDEC : SC-70, SOT-323
- Minimum Packing Quantity : 3,000 pcs./reel

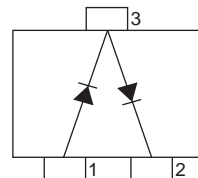
Packing Type: TL



Marking



Electrical Connection



1SV264**Electrical Characteristics at Ta=25°C**

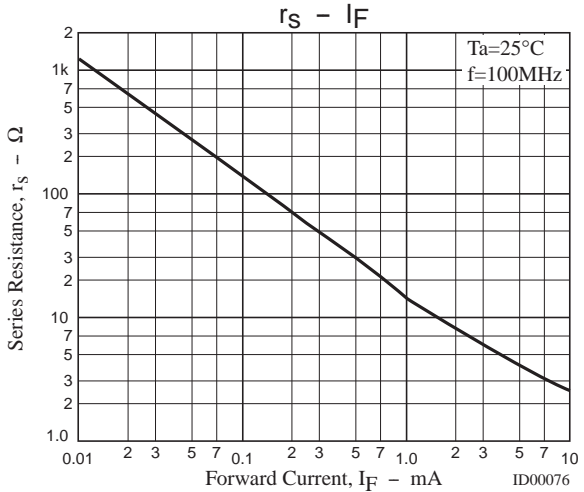
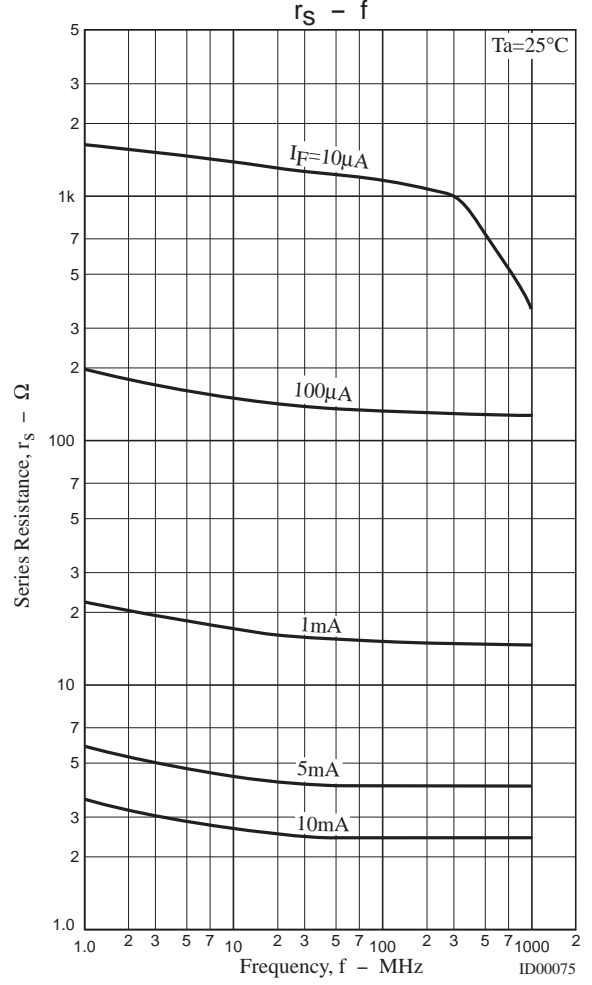
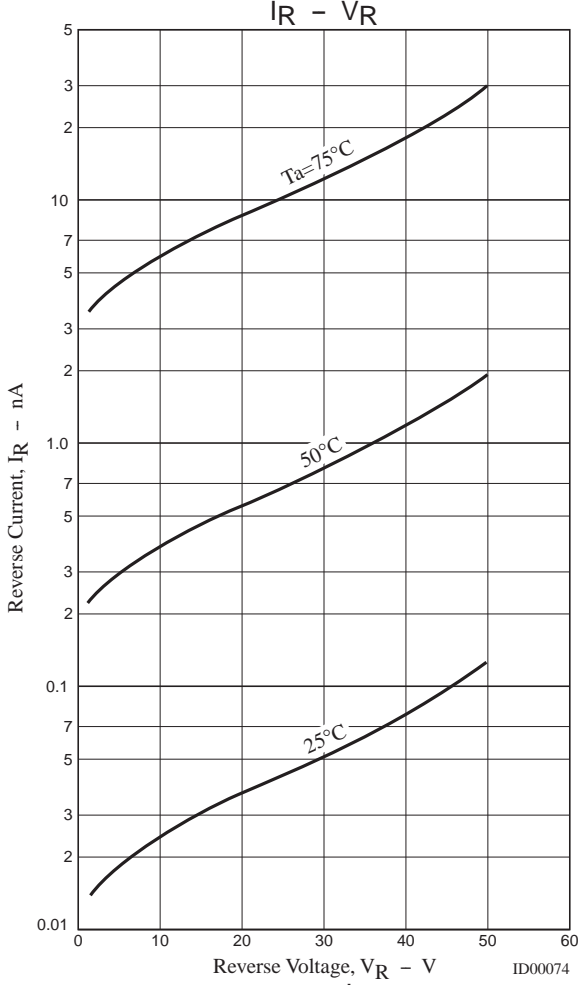
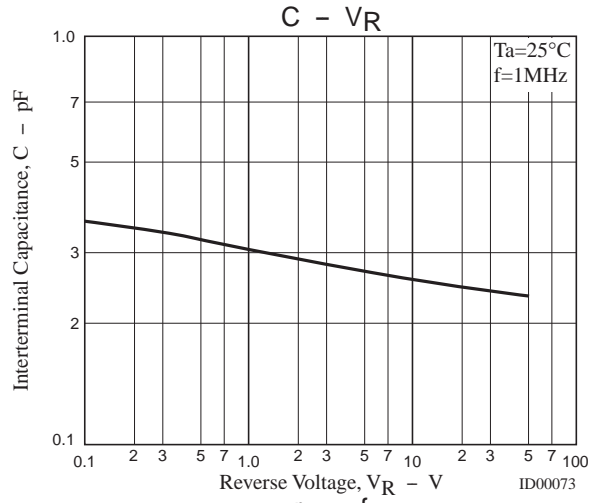
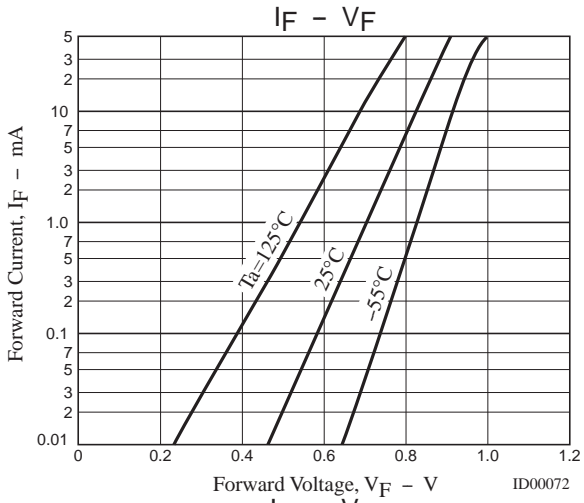
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=10\mu A$	50			V
Reverse Current	I_R	$V_R=50V$			0.1	μA
Forward Voltage	V_F	$I_F=50mA$		0.91	0.95	V
Interterminal Capacitance	C	$V_R=50V, f=1MHz$		0.23	0.4	pF
Series Resistance	r_s	$I_F=5mA, f=100MHz$		4.0	8.0	Ω
		$I_F=10mA, f=100MHz$		2.5	4.5	Ω

Note : The specifications shown above are for each individual diode.

Ordering Information

Device	Package	Shipping	memo
1SV264-TL-E	MCP	3,000pcs./reel	Pb Free

1SV264



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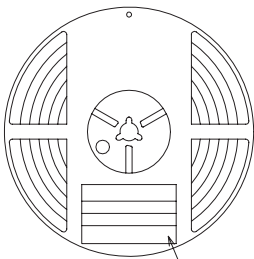
Embossed Taping Specification

1SV264-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)
MCP	MCP	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

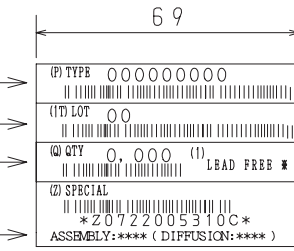
Packing method



Reel label

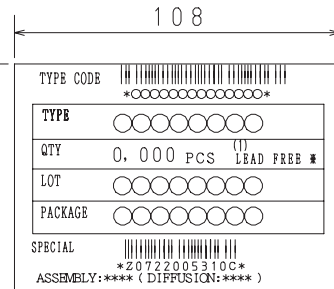
Type No.
LOT No.
Quantity
Origin

Reel label, Inner box label
(unit:mm)



Outer box label

It is a label at the time of factory shipments.
The form of a label may change in physical distribution process.



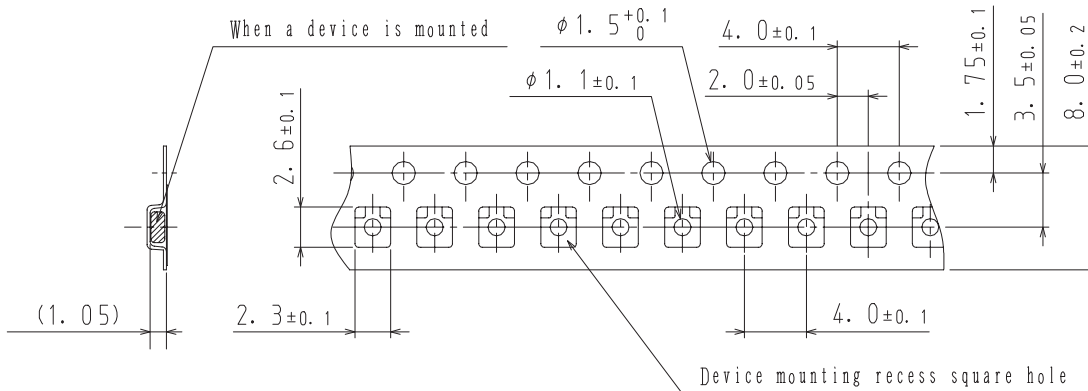
NOTE (1)

The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

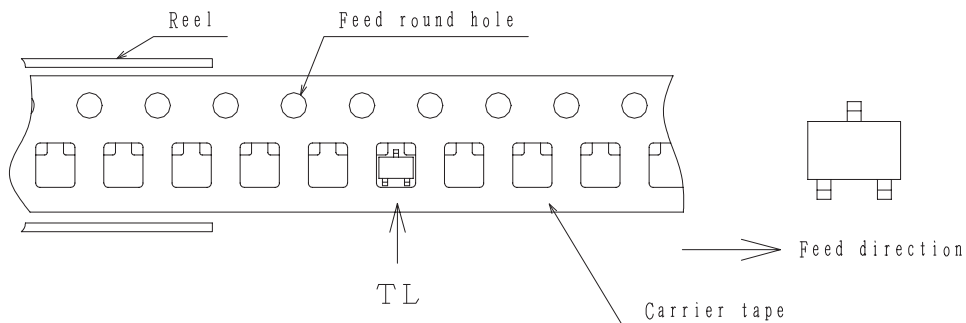
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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



2-2. Device placement direction

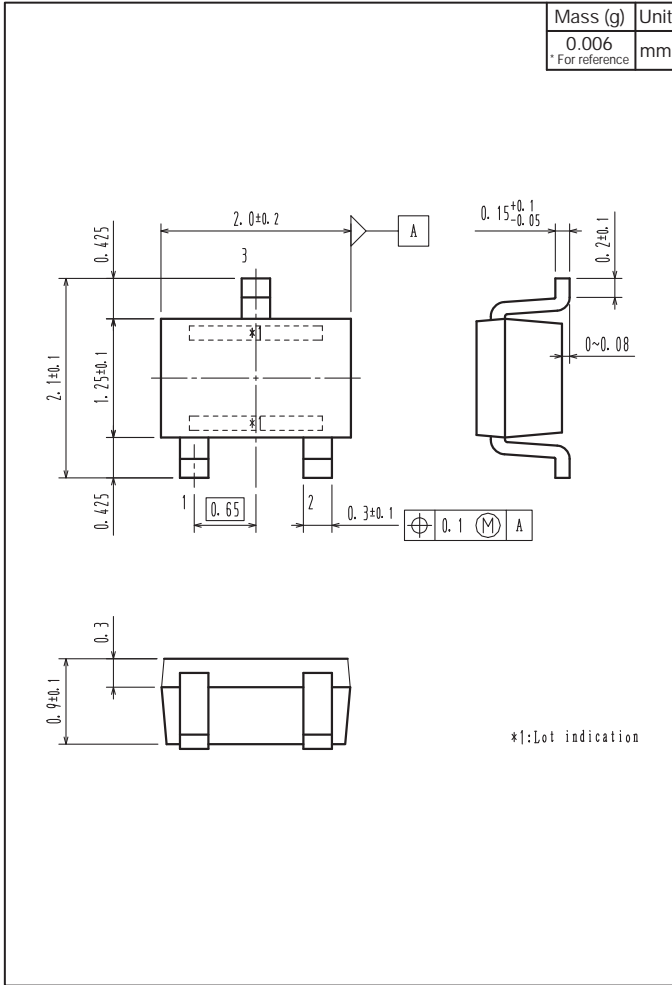


Those with oen electrode terminal on the feed hole side.....TL

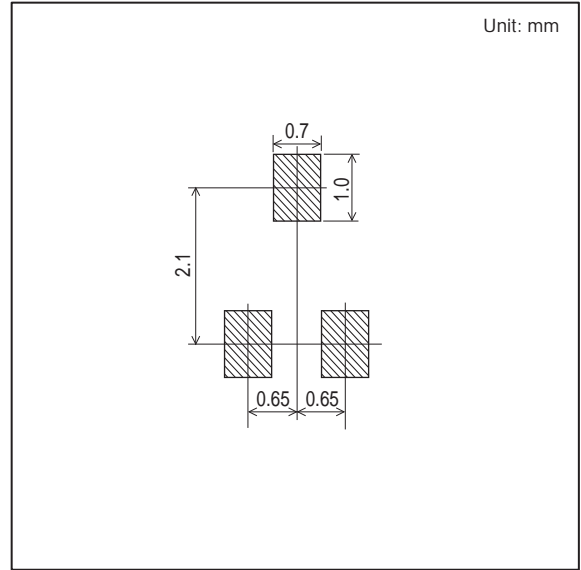
1SV264

Outline Drawing

1SV264-TL-E



Land Pattern Example



1SV264

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