1SV246

ON Semiconductor®

http://onsemi.com

PIN Diode

Dual series PIN Diode for VHF, UHF and AGC 50V, 50mA, r_S =typ 5 Ω , MCP

Features

- · Series connection of 2 elements in a very small-sized package facilitates high-density mounting and permits 1SV246-applied equipment to be made smaller
- Small interterminal capacitance (C=0.23pF typ)
- Small forward series resistance ($r_s=5\Omega \text{ typ}$)

Specifications

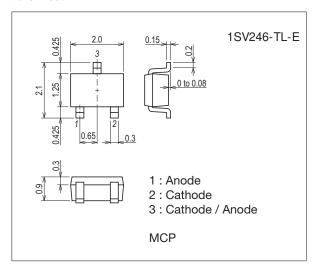
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		50	V
Forward Current	IF		50	mA
Allowable Power Dissipation	Р		100	mW
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) 7023A-007

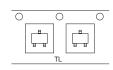


Product & Package Information

• Package : MCP

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

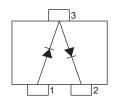
Packing Type: TL



Marking



Electrical Connection



1SV246

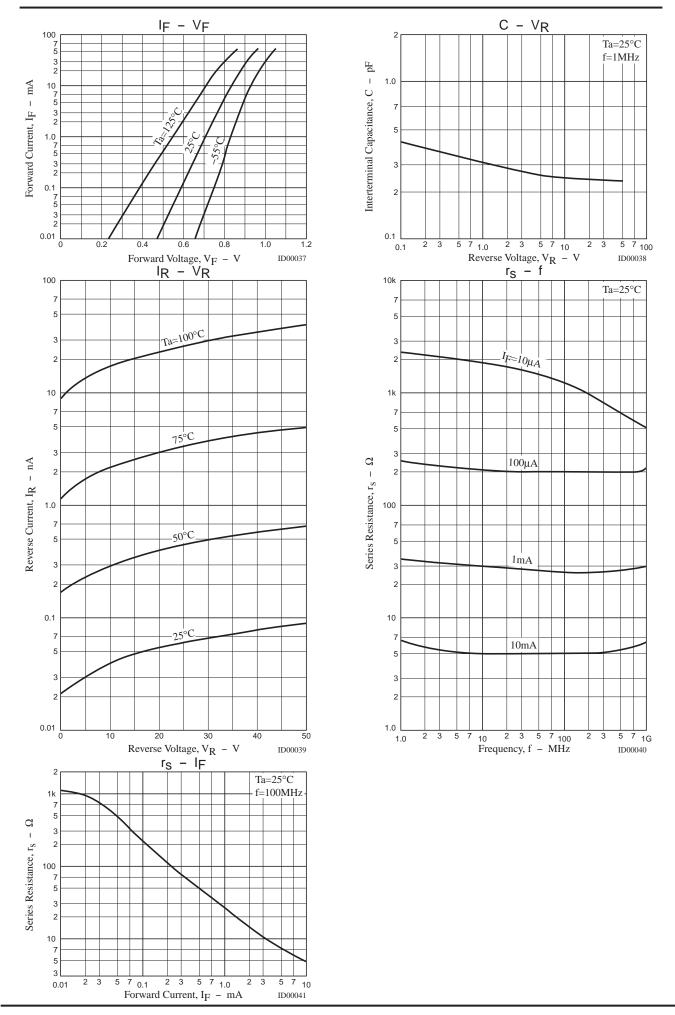
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Unit
Reverse Voltage	VR	I _R =10μA	50			V
Reverse Current	IR	V _R =50V			0.1	μΑ
Forward Voltage	VF	IF=50mA		0.95		V
Interterminal Capacitance	С	V _R =50V, f=1MHz		0.23		pF
Series Resistance	r _S	IF=10mA, f=100MHz		5.0		Ω

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

Ordering Information

Device	Package	Shipping	memo	
1SV246-TL-E	MCP	3,000pcs./reel	Pb Free	

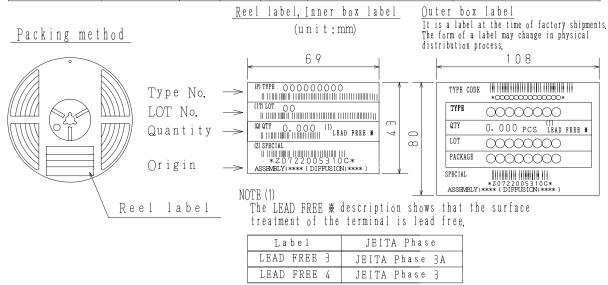


Embossed Taping Specification

1SV246-TL-E

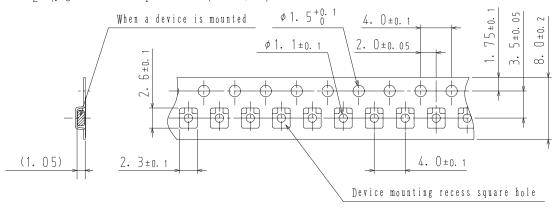
1. Packing Format

Package Na	ame	Carrier Tape	Maximum Number of devices contained (pcs)				
		Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
MCP		MCP	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

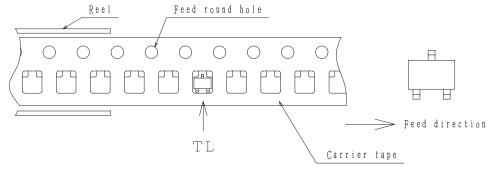


2. Taping configuration

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



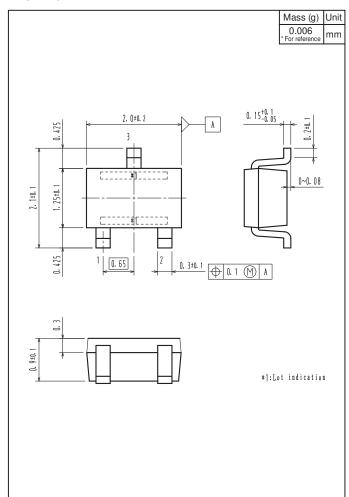
2-2. Device placement direction



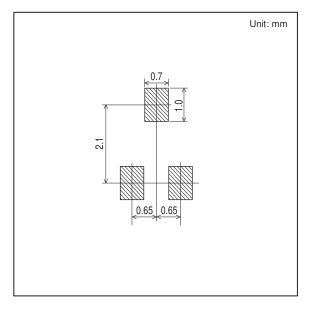
Those with oen electrode terminal on the feed hole side·····TL

Outline Drawing

1SV246-TL-E



Land Pattern Example



ON Semiconductor and the ON logo are registered trademarks of Semiconductor Components Industries, LLC (SCILLC). SCILLC owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of SCILLC's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent regarding the design or manufacture of the part. SCILLC is an Equa