

## SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

# 

## Low VF · High-Speed Switching Diode

#### **Features**

- VRRM=400V
- $t_{rr}=17ns(typ.)(I_F=0.5A, I_R=1A)$

- · VF max=1.5V
- · Halogen free compliance

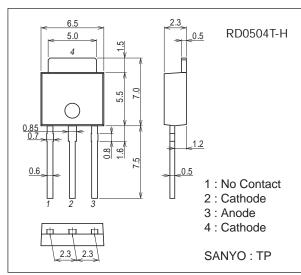
## **Specifications**

#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		400	V
Average Output Current	Io		5	А
Surge Forward Current	IFSM	Sine wave 10ms, 1 cycle	40	Α
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

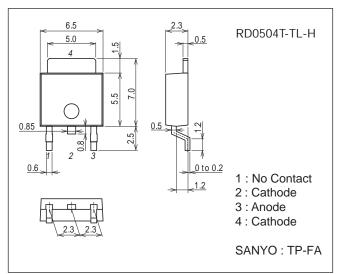
### Package Dimensions unit: mm (typ)

7518-002



### Package Dimensions unit: mm (typ)

7003-001



#### **Product & Package Information**

• Package: TP

• JEITA, JEDEC: SC-64, TO-251

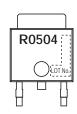
• Minimum Packing Quantity: 500 pcs./bag

• Package: TP-FA

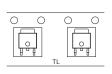
• JEITA, JEDEC: SC-63, TO-252

• Minimum Packing Quantity : 700 pcs./reel

#### Marking (TP, TP-FA)



#### Packing Type (TP-FA): TL



#### **Electrical Connection**

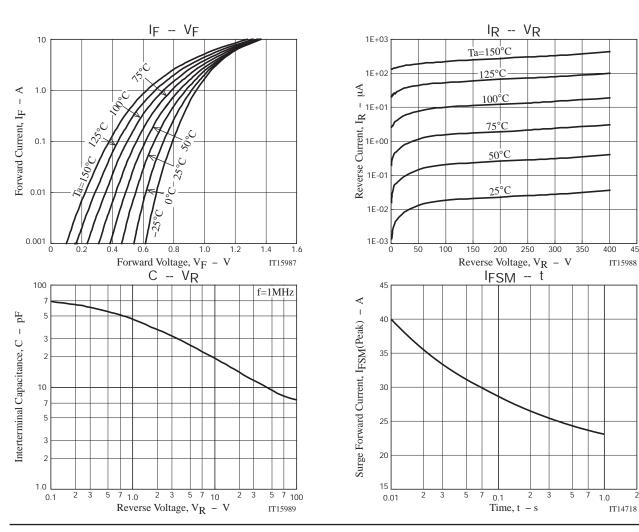


#### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit	
Parameter	Symbol	Conditions	min	typ	max	OTIIL	
Reverse Voltage	VR	I <sub>R</sub> =1mA	400			V	
Forward Voltage	VF	I <sub>F</sub> =5A		1.2	1.5	V	
Reverse Current	IR	V <sub>R</sub> =400V			20	μΑ	
Reverse Recovery Time	t <sub>rr</sub> 1	I <sub>F</sub> =5A, di / dt=100A/μs		40	50	ns	
Reverse Recovery Time	t <sub>rr</sub> 2	IF=0.5A, IR=1A		17		ns	
Thermal Resistance	Rth(j-c)	Junction -Case		6		°C / W	

## **Ordering Information**

Device	Package	Shipping	memo
RD0504T-H	TP	500pcs./bag Pb Free and haloge	
RD0504T-TL-H	TP-FA	700pcs./reel	PD FIEE AND HAIOGEN FIEE

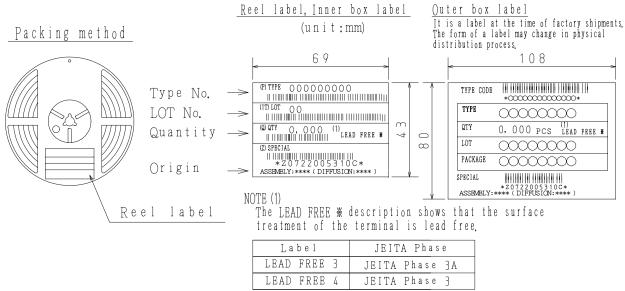


## Taping Specification

#### RD0504T-TL-H

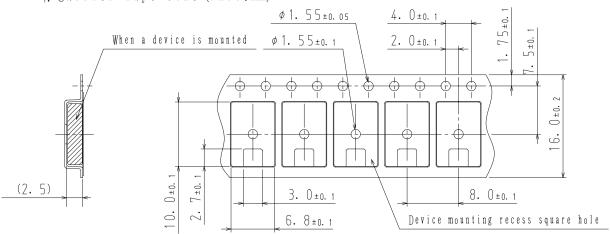
Packing Format

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)
TP-FA	TP	700	2, 100	12, 600	3 reels contained	6 inner boxes contained
					Dimensions:mm (external)	Dimensions:mm (external)
					183×72×185	440×195×210

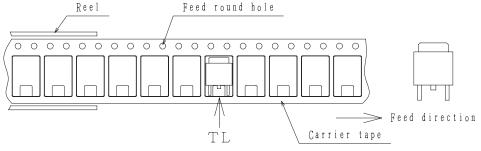


### Taping configuration

1. Carrier tape size (unit:mm)



7. Device placement direction



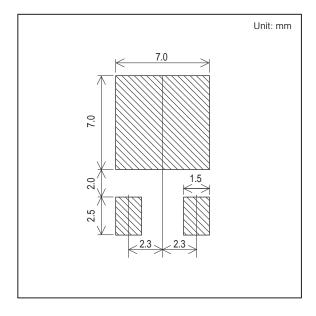
Those with one electrode terminal on the feed hole side · · · · · · TL

## **Outline Drawing**

RD0504-TL-H

## Mass (g) Unit 0.282 mm 6. 5±0. 2 0. 5±0. 1 5. O±0. 2 1. 5±0. 2 [\*1] 7. 0±0. 3 5. 5±0. 2 LOT No. 1. 2±0. 3 0. 5±0. 15 L 0. 85±0. 2 2. 5±0. 3 3 1. 2±0. 3 0.6±0.2 0~0.2 2. 3±0. 2 2. 3±0. 2 Pin 2 is idle pin with electrical designation only carried. \*1:Lot indication

### **Land Pattern Example**

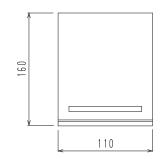


# Bag Packing Specification RD0504T-H

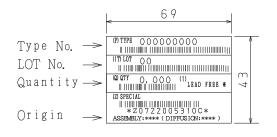
### 1. Packing Format

Package Name		Maximum Number of devices contained (pcs)				
Bag		Inner box	Outer box			
TP		B-1	A-1	A-2 30,000		
1 Γ	500	10,000	50,000			
	•	Packing fo	rmat (Dimensions:m	m (external))		
		Inner box	Outer	bох		
		B-1	A-1	A-2		
4 4 5 × 2 2 5 × 5 5		445×225×55	470×250×300	470×250×190		

# 2. Bag dimensions (unit:mm)







# 4. Outer box label (unit:mm)

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

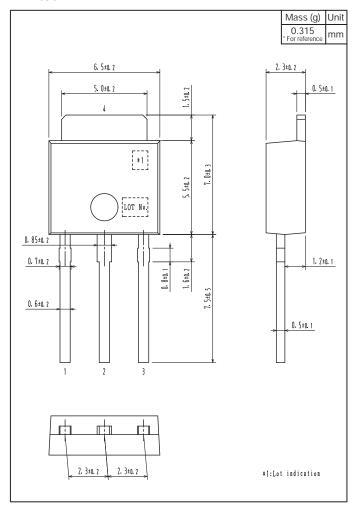
NOTE (1)						
	FREE 💥 d					
surface	treatment	o f	the te	rminal	is le	ead free.

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

_	TYPE CODE ************************************
	TYPE OOOOOO
	QTY O, 000 PCS LEAD FREE #
$\infty$	LOT COCCOCCOCC
	PACKAGE COCCO
	SPECIAL
	108

## **Outline Drawing**

RD0504T-H



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