

### Continental Device India Limited

An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company



## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SS32 - S300



DO-214AA (SMB) Surface Mount Package

Polarity: Colour band denotes cathode end

For use in Low Voltage, High Frequency Inverters, Free Wheeling Diodes and Polarity Protection Applications

## **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless specified otherwise. Resistive or Inductive Load.

DESCRIPTION	SYMBOL	<b>SS32</b>	<b>SS33</b>	<b>SS34</b>	<b>SS35</b>	<b>SS36</b>	<b>SS38</b>	<b>SS39</b>	S300	UNIT
Maximum Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	64	71	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at T <sub>L</sub> =75°C	I <sub>(AV)</sub>	3.0					Α			
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	80					А			
Maximum Instantaneous Forward Voltage at I <sub>F</sub> =3.0A	*V <sub>F</sub>	0.50 0.70 0.85				٧				
Maximum DC Reverse Current T <sub>a</sub> =25°C		0.5						mΑ		
at Rated DC Blocking Voltage T <sub>a</sub> =100°C	*I <sub>R</sub>	20						mA		
Thermal Resistance Junction to Ambient	**R <sub>th (j-a)</sub>	TYP55						°C/W		
Thermal Resistance Junction to Ambient	**R <sub>th (j-a)</sub>	TYP17						°C/W		
Operating Junction Temperature Range	Tj	- 55 to +125			°C					
Storage Temperature Range	T <sub>stg</sub>	- 55 to +150			°C					

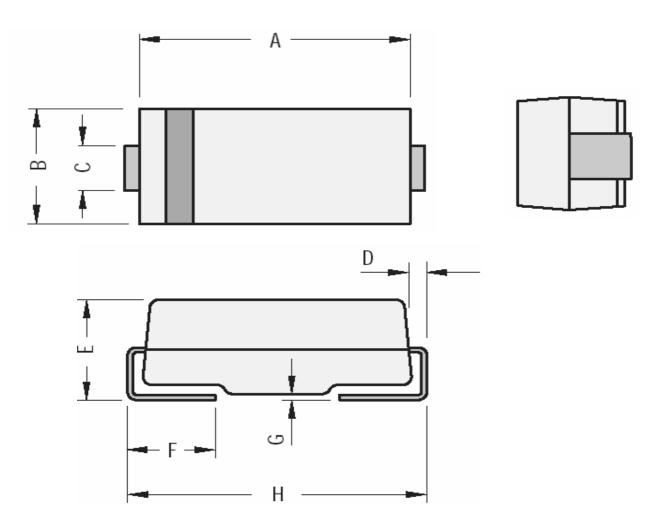
<sup>\*</sup> Pulse Test With PW=300ms, 1% Duty Cycle.

SS32\_S300Rev290405E

<sup>\*\*</sup> Mounted on PCB with 0.30" x 0.30" (8.0 x 8.0 mm) Copper Pad Area

# DO-214AA (SMB) Surface Mount Package

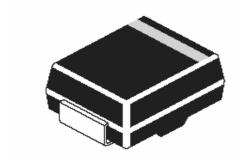
# DO-214AA (SMB) SMD Plastic Package



DIM	Min	Max
Α	4.06	4.57
В	3.30	3.94
С	1.96	2.11
D	0.152	0.305

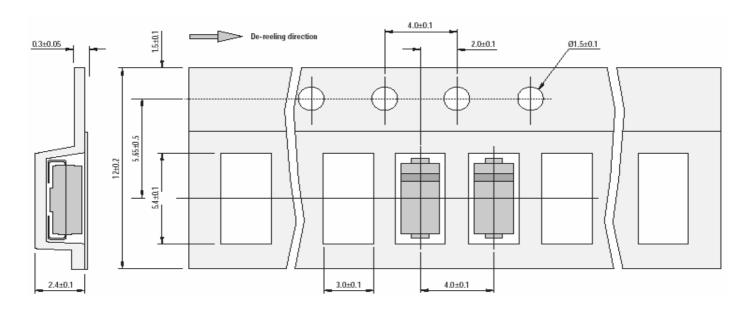
DIM	Min	Max
E	2.13	2.44
F	0.76	1.52
G	0.102	0.203
Н	5.21	5.59

All Dimensions are in mm



# DO-214AA (SMB) Surface Mount Package

## **SMB Packing Tape**



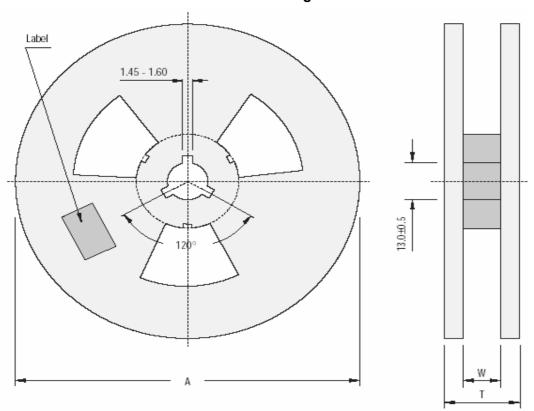
### All Dimensions are in mm

## **Packaging Information**

Package/	Packaging Type	Std. Packing	Inner Carton			Outer Carton		
Case Type		Qty	Qty	Size L x W x H	Gross Weight	Qty	Size L x W x H	Gross Weight
				(cm)	(Kg)		(cm)	(Kg)
DO-214AA (SMB)	T&R	5,000				50K	46 x 38 x 22	8.9

T & R: Tape and Reel

### **Reel Dimensions for SMD Package**



Reel Specifications							
	Tape	Reel Dia.	Inside	Reel			
Package	Width		Thickness	Thickness			
		A - Max	W	T - max			
DO-214AA (SMB)	12	330	12.4 ± 2	18.4			

All Dimensions are in mm

#### **Component Disposal Instructions**

- CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

## **Disclaimer**

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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