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 25ºC ambient temperature unless specified otherwise. Resistive or Inductive Load.

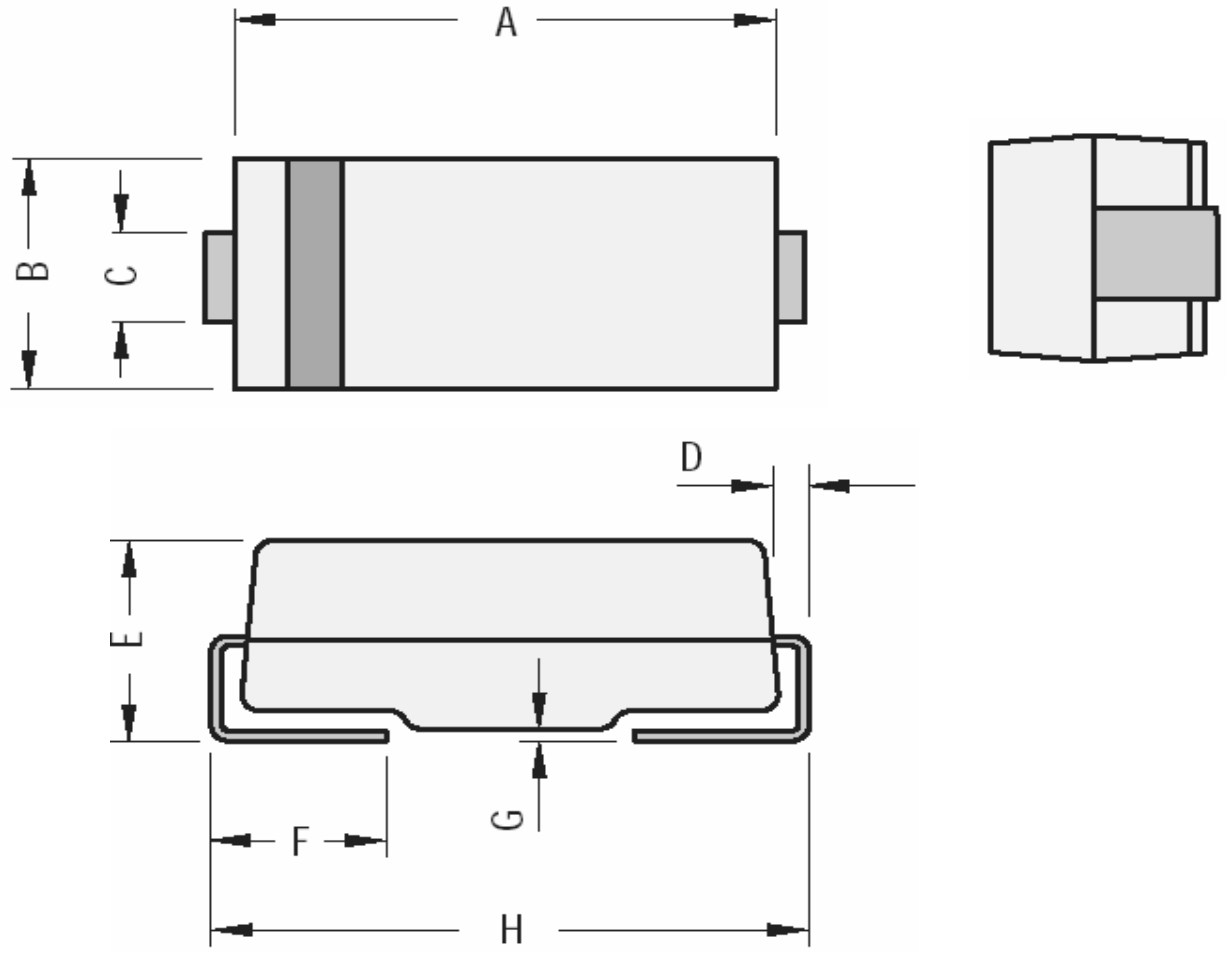
DESCRIPTION	SYMBOL	SS32	SS33	SS34	SS35	SS36	SS38	SS39	S300	UNIT
Maximum Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	64	71	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current 0.375"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

*** Pulse Test With PW=300ms, 1% Duty Cycle.**

**** Mounted on PCB with 0.30" x 0.30" (8.0 x 8.0 mm) Copper Pad Area**

SS32_S300Rev290405E

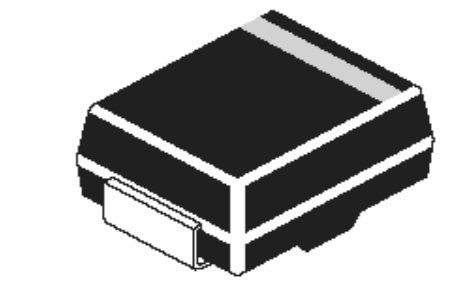
DO-214AA (SMB) SMD Plastic Package



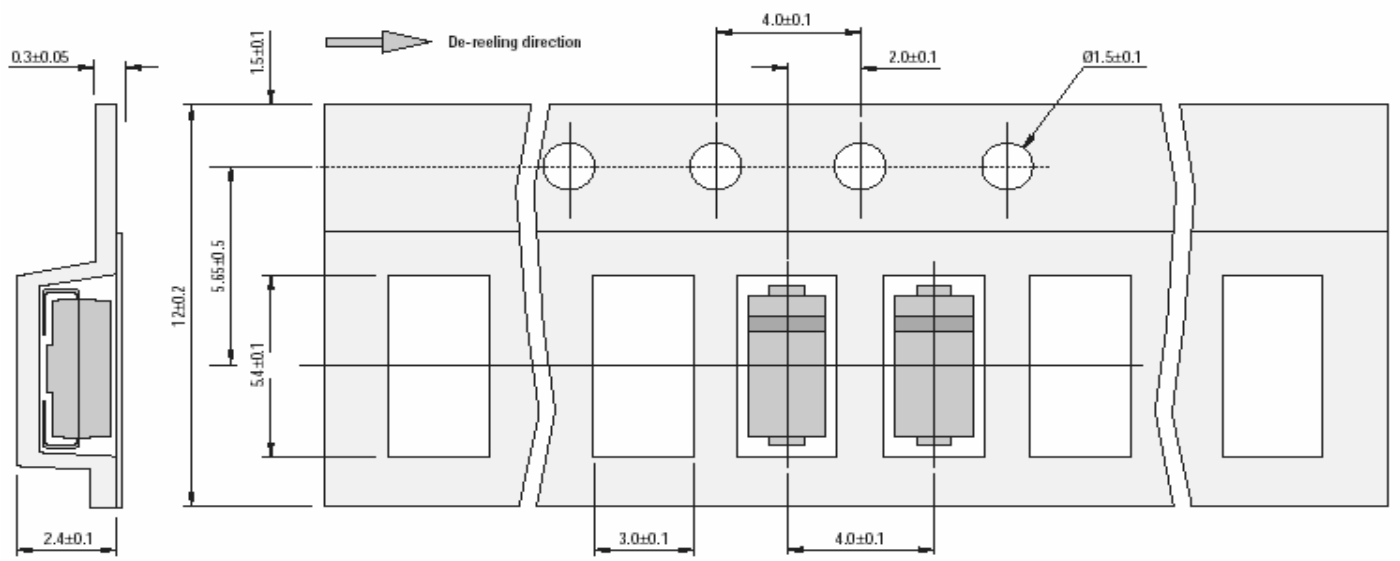
DIM	Min	Max
A	4.06	4.57
B	3.30	3.94
C	1.96	2.11
D	0.152	0.305

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

All Dimensions are in mm



SMB Packing Tape



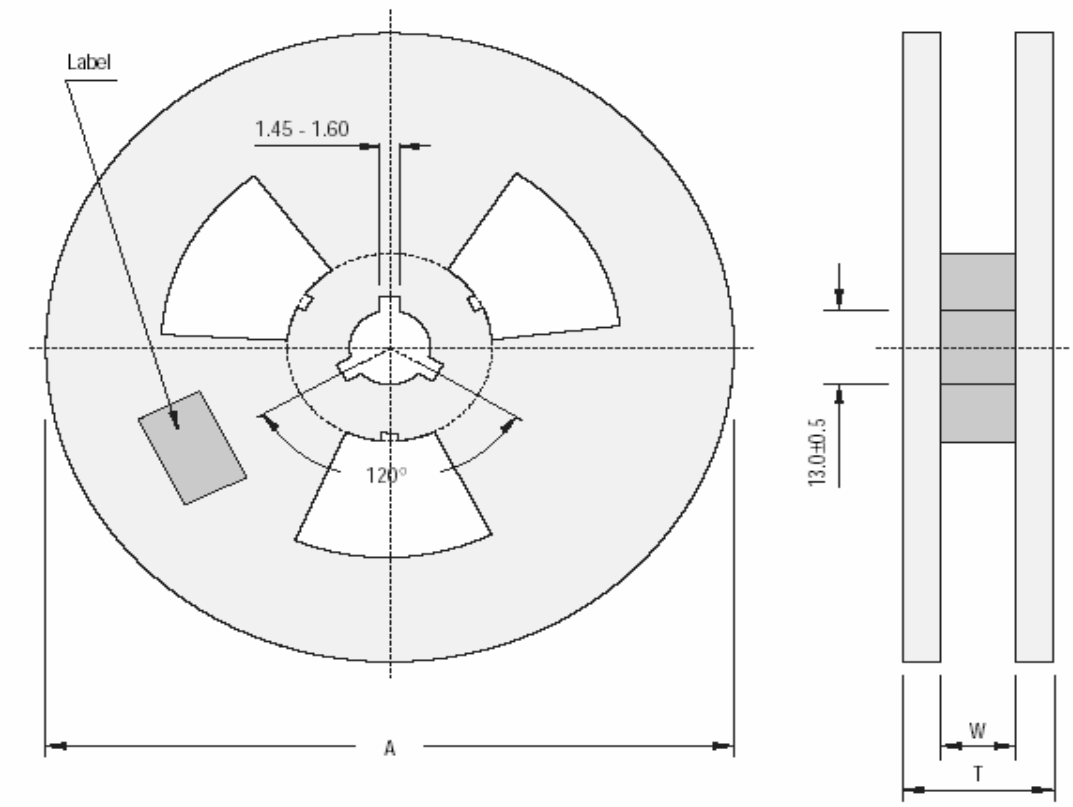
All Dimensions are in mm

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

All Dimensions are in mm

Component Disposal Instructions

1. 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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