

## SURFACE MOUNT GLASS PASSIVATED RECTIFIER

## S3A - S3M



### DO-214AB (SMC) Surface Mount Package

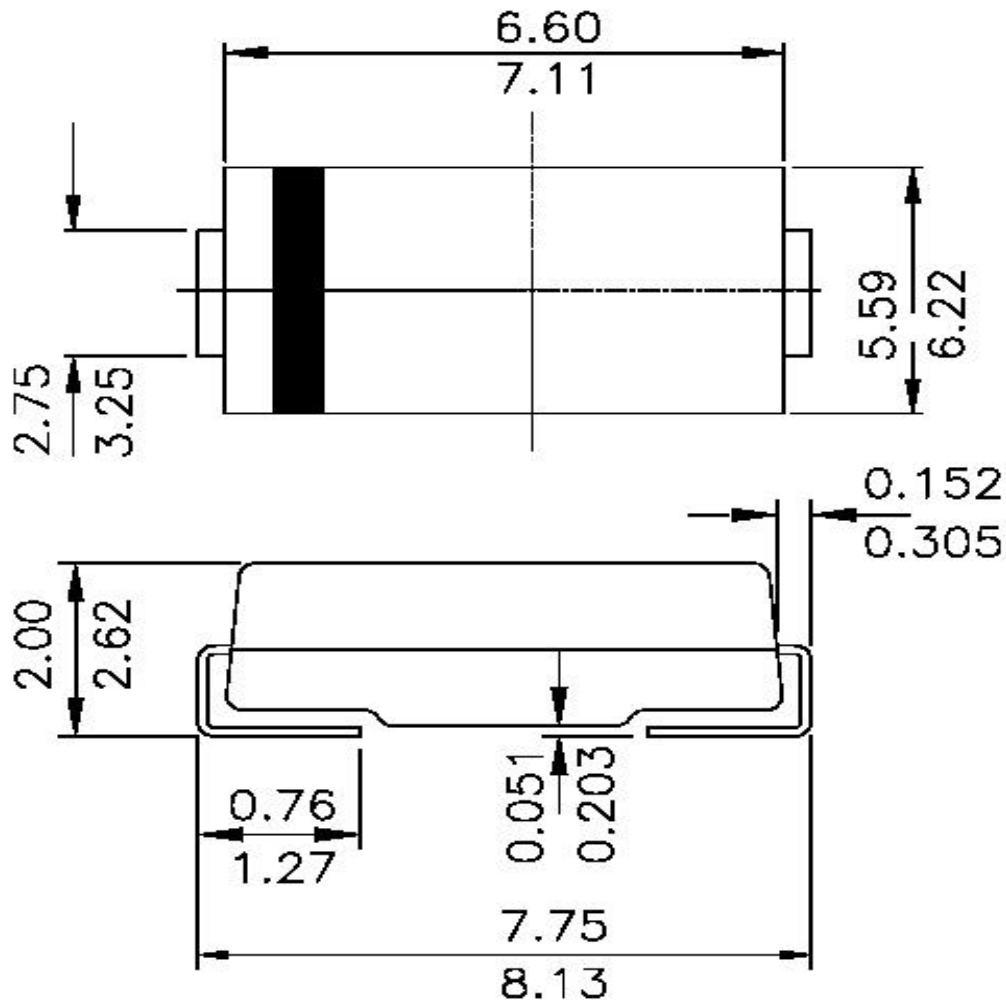
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at  $T_a=25^{\circ}\text{C}$  Ambient Temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

DESCRIPTION	SYMBOL	S3A	S3B	S3D	S3G	S3J	S3K	S3M	UNIT
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current Lead Length at $T_L=75^{\circ}\text{C}$	$I_{(AV)}$	3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	200							A
Maximum Forward Voltage at $I_F=3.0\text{A}$ DC	$V_F$	1.2							V
Maximum DC Reverse Current $T_j=25^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_j=100^{\circ}\text{C}$	$I_R$	5.0							$\mu\text{A}$
		250							$\mu\text{A}$
Junction Capacitance	$*C_j$	TYP40							pF
Thermal Resistance Junction to Lead	$R_{th (J-L)}$	TYP10							$^{\circ}\text{C/W}$
Thermal Resistance Junction to Ambient	$R_{th (j-a)}$	TYP50							$^{\circ}\text{C/W}$
Operating Junction Temperature Range	$T_j$	- 55 to +150							$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to +150							$^{\circ}\text{C}$

\*Measured at 1MHz and applied reverse voltage of 4.0 VDC

S3A\_3M Rev091206E

PACKAGE DO-214AB (SMC)

ALL DIMENSIONS ARE IN mm  
 PACKING:— 1.8K / REEL(7" 178mm)  
 PACKING:— 7.5K / REEL(13" 330mm)

**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 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 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).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



CDIL is a registered Trademark of  
Continental Device India Limited

C-120 Naraina Industrial Area, New Delhi 110 028, India.

Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119

email@cdil.com www.cdilsemi.com