

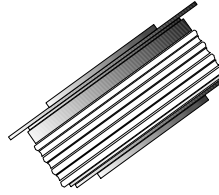


**Transys**  
**Electronics**  
**LIMITED**

# SD1100C(\*)L Series

## STANDARD RECOVERY DIODE

$I_{F(AV)} = 1170 \text{ A}$ ,

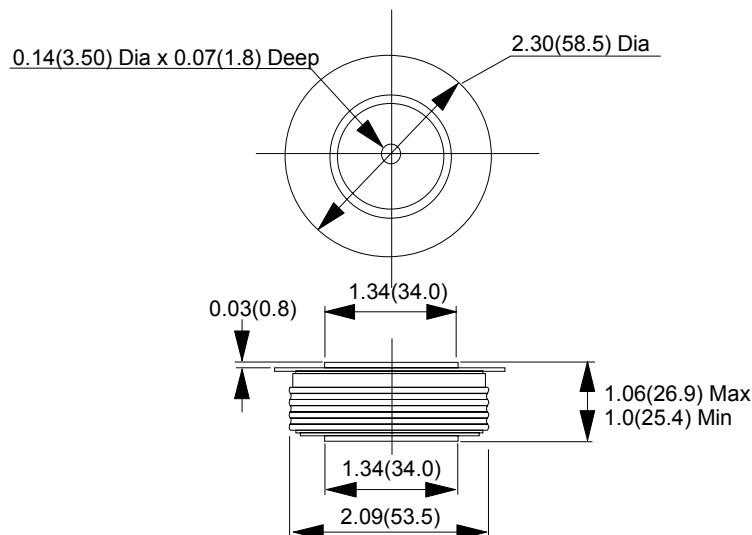


Case: B-Puk

| MAXIMUM RATINGS (Tj = 25 °C unless stated otherwise) |             |                 |             |             |             |             |                |             |             |                   |
|------------------------------------------------------|-------------|-----------------|-------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------------|
| Parameter                                            | Symbol      | SD1100C 04L     | SD1100C 08L | SD1100C 12L | SD1100C 16L | SD1100C 20L | SD1100C 25L    | SD1100C 30L | SD1100C 32L | Unit              |
| Repetitive Peak Reverse Voltage                      | $V_{RRM}$   | 400             | 800         | 1200        | 1600        | 2000        | 2500           | 3000        | 3200        | Volt              |
| Maximum Average On-State Current                     | $I_{F(AV)}$ | 1170 at TC=55°C |             |             |             |             | 910 at TC=55°C |             |             | Amp               |
| Peak Forward Surge Current                           | $I_{FSM}$   | 13600           |             |             |             |             | 11000          |             |             | Amp               |
| Maximum $I^2T$ for Fusing                            | $I^2T$      | 772             |             |             |             |             | 503            |             |             | A <sup>2</sup> /S |
| Maximum Storage Temperature Range                    | $T_{(STG)}$ | -55 to +200     |             |             |             |             | -55 to +200    |             |             | °C                |
| Maximum Junction Temperature Range                   | $T_j$       | -40 to +180     |             |             |             |             | -40 to +150    |             |             | °C                |

| ELECTRICAL CHARACTERISICS at 25 °C Maximum Unless Stated |                                                |                       |                                        | Value |     |      | Unit |
|----------------------------------------------------------|------------------------------------------------|-----------------------|----------------------------------------|-------|-----|------|------|
| Otherwise                                                | Parameter                                      | Symbol                | Condition                              | Min   | Typ | Max  |      |
|                                                          | Maximum Forward Voltage                        | V <sub>FM</sub>       | I <sub>pk</sub> = 1500 Amps 400-2000V  |       |     | 1.31 | Volt |
|                                                          | Maximum Forward Voltage                        | V <sub>FM</sub>       | I <sub>pk</sub> = 1500 Amps 2500-3200V |       |     | 1.44 | Volt |
|                                                          | Repetitive Peak Off- State Current at TC=175°C | I <sub>RRM</sub>      | V <sub>R</sub> = V <sub>RRM</sub>      |       |     | 15.0 | mA   |
|                                                          | Thermal Resistance (Junction toHeatsink)       | R <sub>TH (J-h)</sub> |                                        |       |     | 0.11 | °C/W |
|                                                          | Mounting Torque                                | M <sub>T</sub>        |                                        |       |     | 9800 | NM   |
|                                                          | Weight                                         | Wt                    |                                        |       |     | 250  | grms |

### Mechanical Dimensions



All Dimensions in Inches (Millimeters)  
Third Angle Projection