

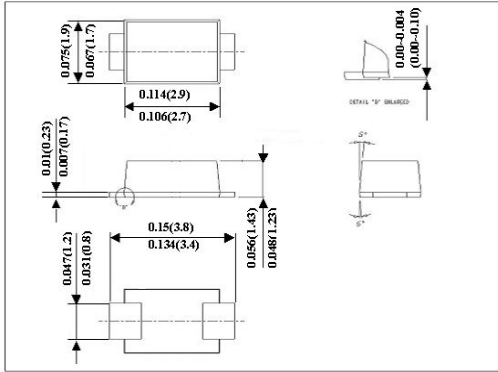


|   |   |
|---|---|
|    | <h2 style="margin: 0;">SS22L THRU SS210L</h2> <h3 style="margin: 0;">2.0 AMPS. Surface Mount Schottky Barrier Rectifiers</h3>   |
|    | <p>Voltage Range<br/>20 to 100 Volts<br/>Current<br/>2.0 Amperes</p>  |
| <p><b>Features</b></p> <ul style="list-style-type: none"> <li>✦ For surface mounted application</li> <li>✦ Low –PROFILE PACKAGE</li> <li>✦ Ideal for automated placement</li> <li>✦ Low power loss, high efficiency</li> <li>✦ High temperature soldering:<br/>260°C / 10 seconds at terminals</li> </ul> <p><b>Mechanical Data</b></p> <ul style="list-style-type: none"> <li>✦ Cases: Sub SMA plastic case</li> <li>✦ Polarity: Color band denotes cathode end</li> <li>✦ Packaging: 12mm tape per EIA STD RS-481</li> <li>✦ Weight approx. 15mg</li> </ul> | <p style="text-align: center;"><b>Sub SMA</b></p> <div style="text-align: center;">  </div> <p style="text-align: center;">Dimensions in inches and (millimeters)</p> |

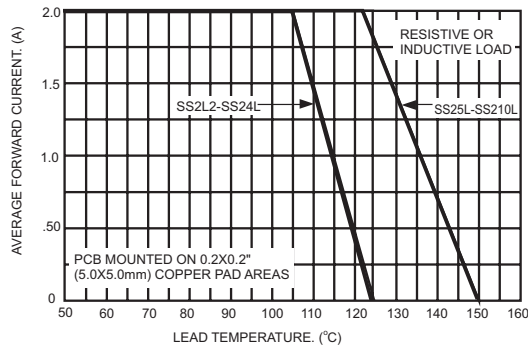
| <b>Maximum Ratings and Electrical Characteristics</b>  |                 |             |           |           |           |             |           |            |       |    |
|--|-----------------|-------------|-----------|-----------|-----------|-------------|-----------|------------|-------|----|
| Rating at 25°C ambient temperature unless otherwise specified.   |                 |             |           |           |           |             |           |            |       |    |
| Single phase, half wave, 60 Hz, resistive or inductive load.   |                 |             |           |           |           |             |           |            |       |    |
| For capacitive load, derate current by 20%   |                 |             |           |           |           |             |           |            |       |    |
| Type Number  | Symbo<br>l      | SS<br>22L   | SS<br>23L | SS<br>24L | SS<br>25L | SS<br>26L   | SS<br>29L | SS<br>210L | Units |    |
| Maximum Recurrent Peak Reverse Voltage   | $V_{RRM}$       | 20          | 30        | 40        | 50        | 60          | 90        | 100        | V     |    |
| Maximum RMS Voltage  | $V_{RMS}$       | 14          | 21        | 28        | 35        | 42          | 63        | 70         | V     |    |
| Maximum DC Blocking Voltage  | $V_{DC}$        | 20          | 30        | 40        | 50        | 60          | 90        | 100        | V     |    |
| Marking Code (Note 4)  |                 | 22LYM       | 23LYM     | 24LYM     | 25LYM     | 26LYM       | 29LYM     | 210LYM     |       |    |
| Maximum Average Forward Rectified Current at $T_L$ (See Fig. 1)  | $I_{(AV)}$      | 2.0         |           |           |           |             |           |            | A     |    |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )        | $I_{FSM}$       | 50          |           |           |           |             |           |            | A     |    |
| Maximum Instantaneous Forward Voltage (Note 1) @ 2.0A  | $V_F$           | 0.5         |           |           | 0.70      |             | 0.85      |            | V     |    |
| Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$ | $I_R$           | 0.4         |           |           |           |             | 0.1       |            | mA    |    |
|  |                 | 20          |           |           | 10.0      |             | 20        |            | mA    |    |
| Typical Junction Capacitance (Note 3)  | $C_j$           | 130         |           |           |           |             |           |            | pF    |    |
| Typical Thermal Resistance ( Note 2 )  | $R \theta_{JL}$ | 17          |           |           |           |             |           |            | °C/W  |    |
|  | $R \theta_{JA}$ | 75          |           |           |           |             |           |            | °C/W  |    |
| Operating Temperature Range  | $T_J$           | -65 to +125 |           |           |           | -65 to +150 |           |            |       | °C |
| Storage Temperature Range  | $T_{STG}$       | -65 to +150 |           |           |           |             |           |            |       | °C |

- Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle  
 2. Measured on P.C.Board with 0.27 x 0.27"(7.0 x 7.0mm) Copper Pad Areas.  
 3. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.  
 4. 22LYM: 2=2A, 2-20V, L-Low Profile, Y-Year Code, M-Month Code.

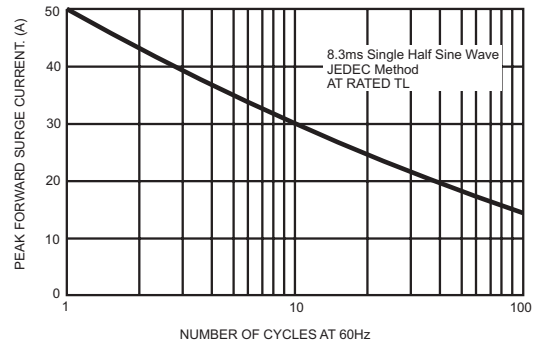


## RATINGS AND CHARACTERISTIC CURVES (SS22L THRU SS210L)

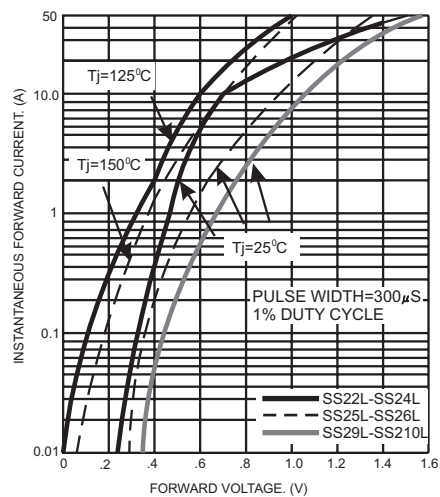
**FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE**



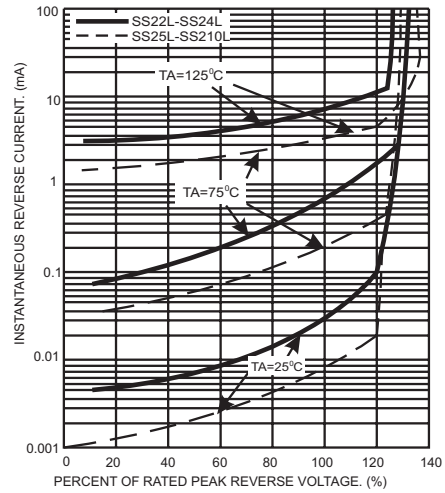
**FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.3- TYPICAL FORWARD CHARACTERISTICS**



**FIG.4- TYPICAL REVERSE CHARACTERISTICS**



**FIG.5- TYPICAL JUNCTION CAPACITANCE**

