

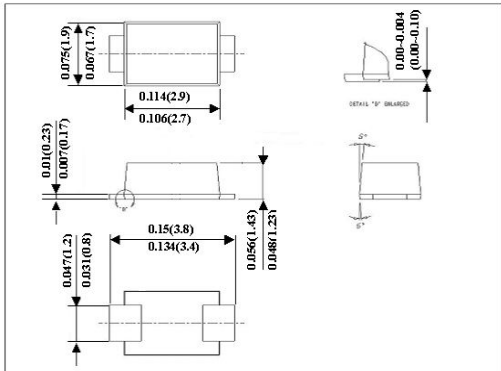


<div><div>TSC</div><div></div></div>	<div>SS22L THRU SS210L</div> <div>2.0 AMPS. Surface Mount Schottky Barrier Rectifiers</div>																																																																																																																																																							
<div><div></div></div>	<div>Voltage Range 20 to 100 Volts Current 2.0 Amperes</div> <div>Sub SMA</div> <div></div> <div>Dimensions in inches and (millimeters)</div>																																																																																																																																																							
<div>Features</div> <div><div>✧ For surface mounted application</div><div>✧ Low –PROFILE PACKAGE</div><div>✧ Ideal for automated placement</div><div>✧ Low power loss, high efficiency</div><div>✧ High temperature soldering: 260°C / 10 seconds at terminals</div></div>																																																																																																																																																								
<div>Mechanical Data</div> <div><div>✧ Cases: Sub SMA plastic case</div><div>✧ Polarity: Color band denotes cathode end</div><div>✧ Packaging: 12mm tape per EIA STD RS-481</div><div>✧ Weight approx. 15mg</div></div>																																																																																																																																																								
<div>Maximum Ratings and Electrical Characteristics</div> <div>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%</div> <table><tr><th>Type Number</th><th>Symbo l</th><th>SS 22L</th><th>SS 23L</th><th>SS 24L</th><th>SS 25L</th><th>SS 26L</th><th>SS 29L</th><th>SS 210L</th><th>Units</th></tr><tr><td>Maximum Recurrent Peak Reverse Voltage</td><td>V<sub>RRM</sub></td><td>20</td><td>30</td><td>40</td><td>50</td><td>60</td><td>90</td><td>100</td><td>V</td></tr><tr><td>Maximum RMS Voltage</td><td>V<sub>RMS</sub></td><td>14</td><td>21</td><td>28</td><td>35</td><td>42</td><td>63</td><td>70</td><td>V</td></tr><tr><td>Maximum DC Blocking Voltage</td><td>V<sub>DC</sub></td><td>20</td><td>30</td><td>40</td><td>50</td><td>60</td><td>90</td><td>100</td><td>V</td></tr><tr><td>Marking Code (Note 4)</td><td></td><td>22LYM</td><td>23LYM</td><td>24LYM</td><td>25LYM</td><td>26LYM</td><td>29LYM</td><td>210LYM</td><td></td></tr><tr><td>Maximum Average Forward Rectified Current at T<sub>L</sub>(See Fig. 1)</td><td>I<sub>(AV)</sub></td><td colspan="7">2.0</td><td>A</td></tr><tr><td>Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )</td><td>I<sub>FSM</sub></td><td colspan="7">50</td><td>A</td></tr><tr><td>Maximum Instantaneous Forward Voltage (Note 1) @ 2.0A</td><td>V<sub>F</sub></td><td colspan="2">0.5</td><td colspan="2">0.70</td><td colspan="2">0.85</td><td>V</td></tr><tr><td rowspan="2">Maximum DC Reverse Current @ T<sub>A</sub> =25°C at Rated DC Blocking Voltage @ T<sub>A</sub>=100°C</td><td rowspan="2">I<sub>R</sub></td><td colspan="5">0.4</td><td colspan="2">0.1</td><td rowspan="2">mA mA</td></tr><tr><td colspan="2">20</td><td colspan="2">10.0</td><td>20</td></tr><tr><td>Typical Junction Capacitance (Note 3)</td><td>C<sub>j</sub></td><td colspan="7">130</td><td>pF</td></tr><tr><td rowspan="2">Typical Thermal Resistance ( Note 2 )</td><td>R θ<sub>JL</sub></td><td colspan="7">17</td><td>°C/W</td></tr><tr><td>R θ<sub>JA</sub></td><td colspan="7">75</td><td>°C/W</td></tr><tr><td>Operating Temperature Range</td><td>T<sub>J</sub></td><td colspan="4">-65 to +125</td><td colspan="3">-65 to +150</td><td>°C</td></tr><tr><td>Storage Temperature Range</td><td>T<sub>STG</sub></td><td colspan="7">-65 to +150</td><td>°C</td></tr></table>										Type Number	Symbo l	SS 22L	SS 23L	SS 24L	SS 25L	SS 26L	SS 29L	SS 210L	Units	Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	90	100	V	Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	63	70	V	Maximum DC Blocking Voltage	V <sub>DC</sub>	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 <sub>L</sub> (See Fig. 1)	I <sub>(AV)</sub>	2.0							A	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>	50							A	Maximum Instantaneous Forward Voltage (Note 1) @ 2.0A	V <sub>F</sub>	0.5		0.70		0.85		V	Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =100°C	I <sub>R</sub>	0.4					0.1		mA mA	20		10.0		20	Typical Junction Capacitance (Note 3)	C <sub>j</sub>	130							pF	Typical Thermal Resistance ( Note 2 )	R θ <sub>JL</sub>	17							°C/W	R θ <sub>JA</sub>	75							°C/W	Operating Temperature Range	T <sub>J</sub>	-65 to +125				-65 to +150			°C	Storage Temperature Range	T <sub>STG</sub>	-65 to +150							°C
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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

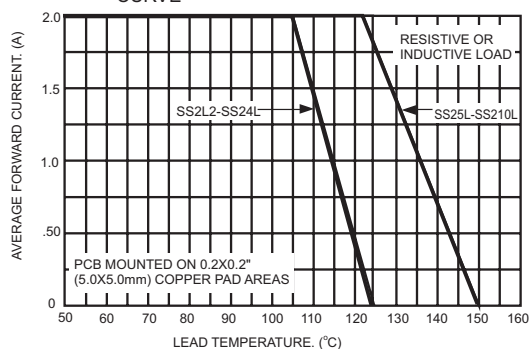


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

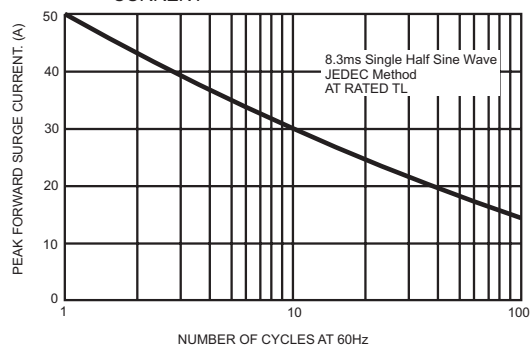


FIG.3- TYPICAL FORWARD CHARACTERISTICS

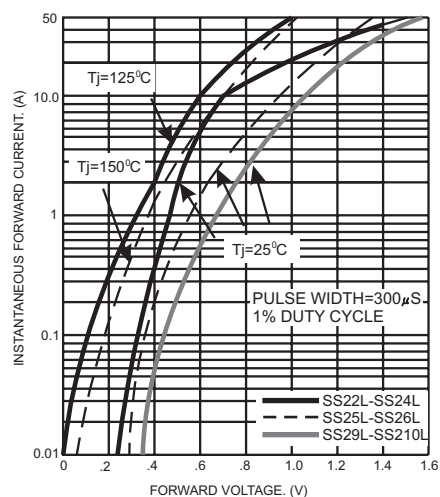


FIG.4- TYPICAL REVERSE CHARACTERISTICS

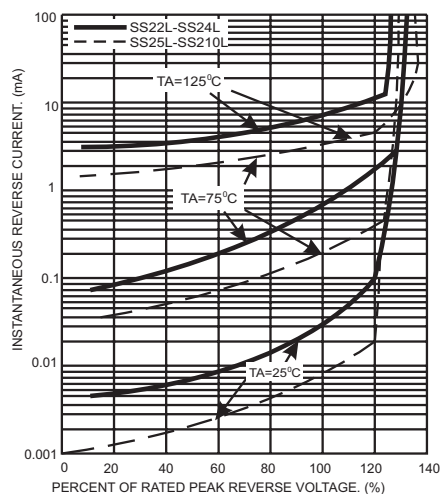


FIG.5- TYPICAL JUNCTION CAPACITANCE

