
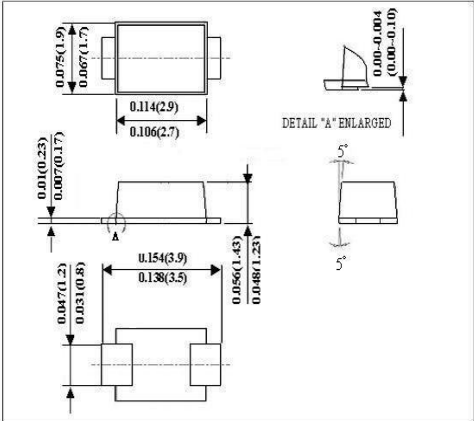
	<h2 style="margin: 0;">SS12L THRU SS14L</h2> <p style="margin: 0;">1.0 AMP. Surface Mount Schottky Barrier Rectifiers</p>
	<p>Voltage Range 20 to 40 Volts Current 1.0 Ampere</p>
<p>Features</p> <ul style="list-style-type: none"> ✧ For surface mounted application ✧ Low –PROFILE PACKAGE ✧ Ideal for automated placement ✧ Low power loss, high efficiency ✧ High temperature soldering: 260°C / 10 seconds at terminals <p>Mechanical Data</p> <ul style="list-style-type: none"> ✧ Cases: JEDEC DO-219-AB(SMF) plastic case ✧ Polarity: Color band denotes cathode end ✧ Packaging: 12mm tape per EIA STD RS-481 ✧ Weight approx. 15mg 	<p style="text-align: center;">Sub SMA</p> <div style="text-align: center;">  </div> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>

Maximum Ratings and Electrical Characteristics
 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	Symbol	SS12L	SS13L	SS14L	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	V
Marking Code (Note 2)		12LYM	13LYM	14LYM	
Maximum Average Forward Rectified Current	$I_{(AV)}$	1.1			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30			A
Maximum Instantaneous Forward Voltage (Note 1) @ 0.5A @ 1.0A	V_F	0.385 0.45	0.43 0.50	0.51 0.55	V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	8.0	0.4 6.0		mA mA
Maximum Thermal Resistance (Note 2)	$R\theta_{JA}$	180			K/W
Operating Temperature Range	T_J	-55 to +125			°C
Storage Temperature Range	T_{STG}	-55 to + 125			°C

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle.
 2. 12LYM: 1-1A, 2-20V, L-Low Profile, Y-Year Code, M-Month Code.



RATINGS AND CHARACTERISTIC CURVES (SS12L THRU SS14L)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

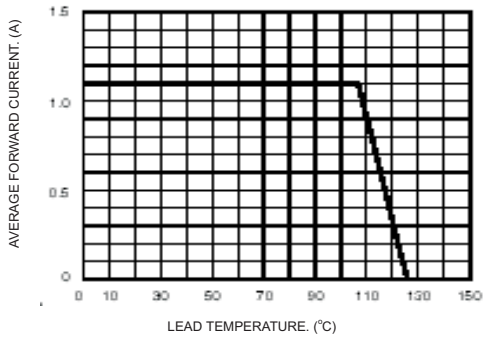


FIG.2- TYPICAL INSTANTANTANEOUS FORWARD CHARACTERISTICS - SI02

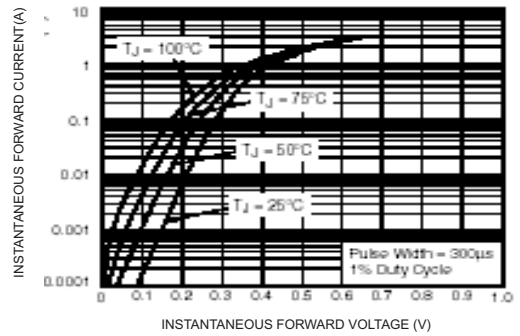


FIG.3- TYPICAL REVERSE CURRENT CHARACTERISTICS - SI02

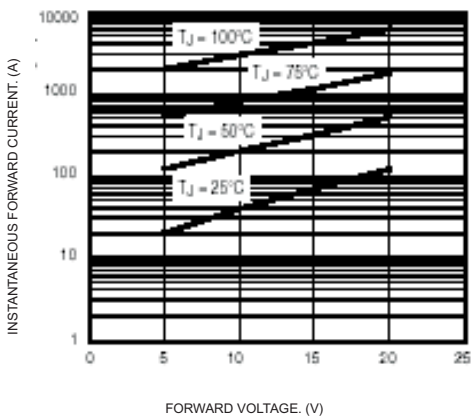


FIG.4- TYPICAL REVERSE CHARACTERISTICS - SI03

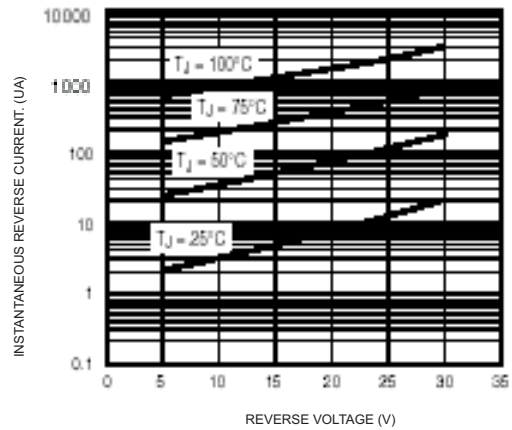


FIG.5- TYPICAL JUNCTION CAPACITANCE

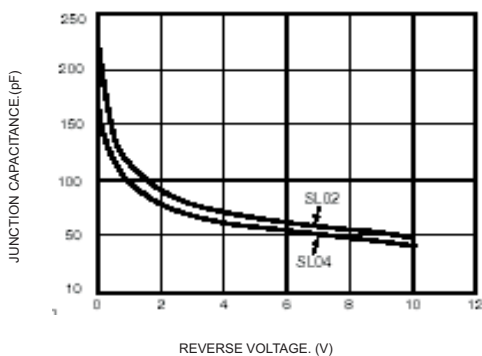


FIG.2- TYPICAL INSTANTANTANEOUS FORWARD CHARACTERISTICS - SI03

