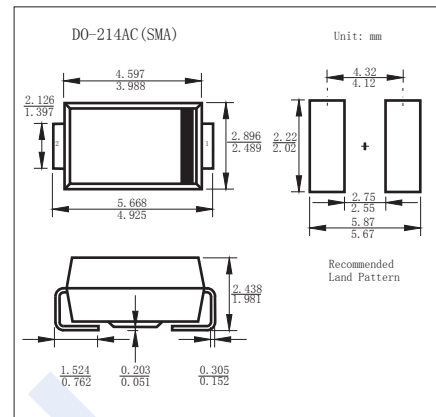


## Rectifier Diodes

## S1AL ~ S1ML

## ■ Features

- 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



## ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	S1AL	S1BL	S1DL	S1GL	S1JL	S1KL	S1ML	Unit	
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V	
RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000		
Forward Voltage @ 1A	V <sub>F</sub>	1.1								A
Averaged Forward Current.TL=110°C	I <sub>FAV</sub>	1								
Peak Forward Surge Current @ 8.3ms	I <sub>FSM</sub>	30								
Maximum DC Reverse Current Ta=25°C	I <sub>R</sub>	5								μA
Ta=125°C		50								
Typical Junction Capacitance (Note.1)	C <sub>j</sub>	9								pF
Thermal Resistance.Junction- to-Ambient	R <sub>thJA</sub>	85								°C/W
Thermal Resistance.Junction- to-Case	R <sub>thJC</sub>	25					30			
Junction Temperature	T <sub>j</sub>	150								°C
Storage Temperature	T <sub>stg</sub>	-55 to 150								

Note.1: Measured at 1 MHz and Applied V<sub>R</sub>=4V

## ■ Marking

NO.	S1AL	S1BL	S1DL	S1GL	S1JL	S1KL	S1ML
Marking	S1A	S1B	S1D	S1G	S1J	S1K	S1M

# Rectifier Diodes

## S1AL ~ S1ML

### ■ Typical Characteristics

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

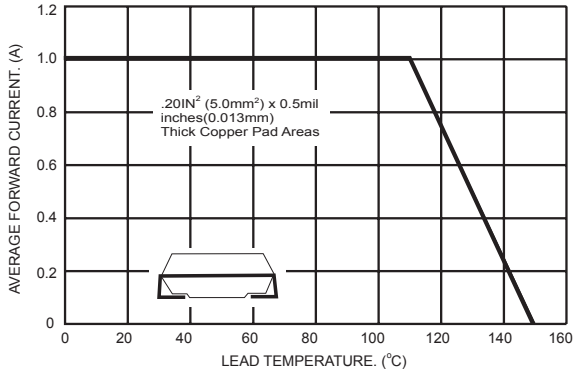


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

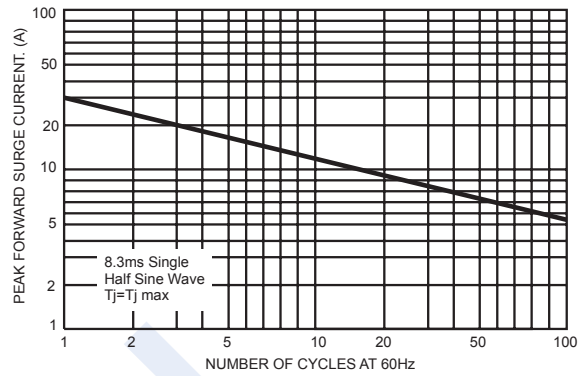


FIG.3- TYPICAL FORWARD CHARACTERISTICS

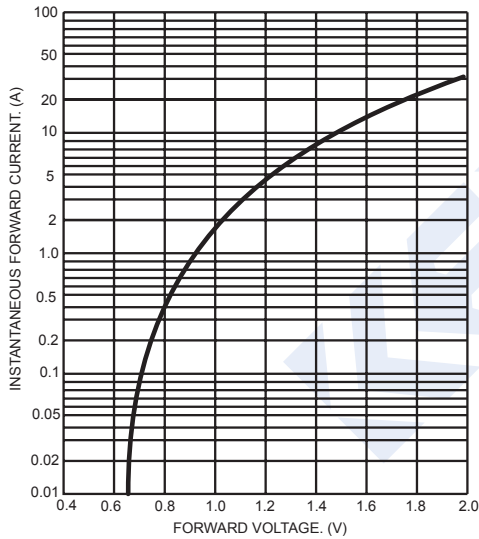


FIG.4- TYPICAL REVERSE CHARACTERISTICS

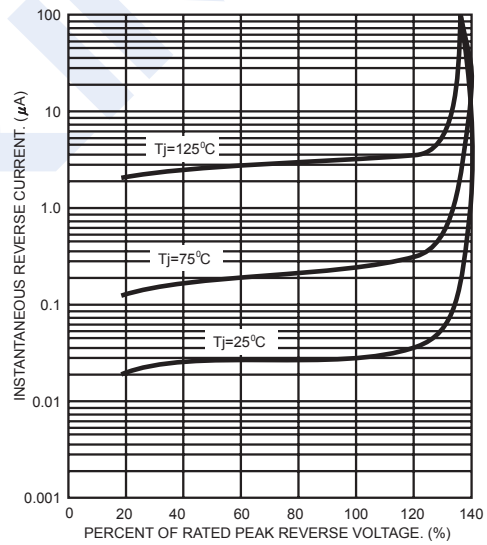


FIG.5- TYPICAL JUNCTION CAPACITANCE

