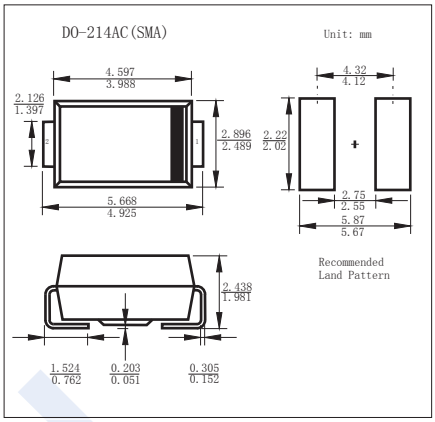
Rectifier Diodes

S1AL ~ S1ML



■ Features

- For surface mounted application
- Low-PROFILE PACKAGE
- Ideal for automated placement
- Low power loss, high efficiency
- High temperature soldering:
  260℃ / 10 seconds at terminals

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	S1AL	S1BL	S1DL	S1GL	S1JL	S1KL	S1ML	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	
Forward Voltage @ 1A	V_F	1.1							
Averaged Forward Current.T_L=110℃	I_{FAV}	1							A
Peak Forward Surge Current @ 8.3ms	I_{FSM}	30							
Maximum DC Reverse Current Ta=25℃	I_R	5							μA
Ta=125℃		50							
Typical Junction Capacitance (Note.1)	Cj	9							pF
Thermal Resistance.Junction- to-Ambient	R_{thJA}	85							℃/W
Thermal Resistance.Junction- to-Case	R_{thJC}	25					30		
Junction Temperature	Tj	150							℃
Storage Temperature	Tstg	-55 to 150							

Note.1: Measured at 1 MHz and Applied V_R=4V

■ Marking

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

Rectifier Diodes

S1AL ~ S1ML

■ Typical Characterisitics

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

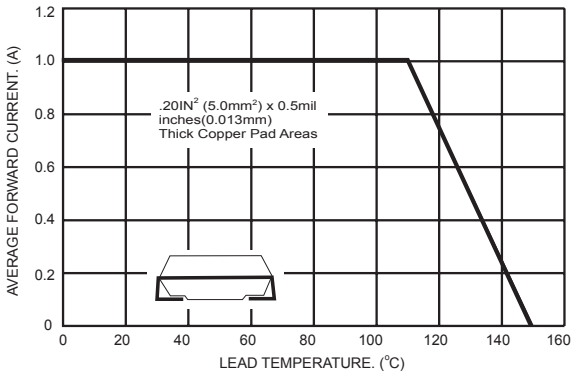


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

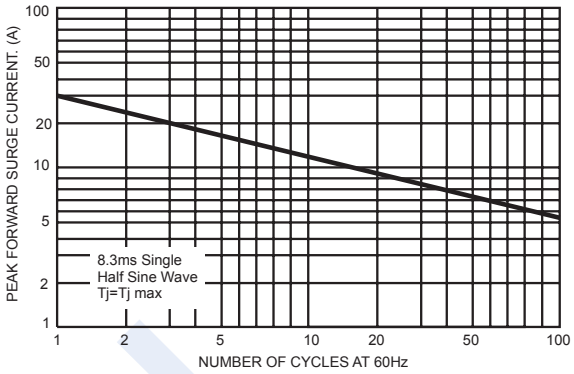


FIG.3- TYPICAL FORWARD CHARACTERISTICS

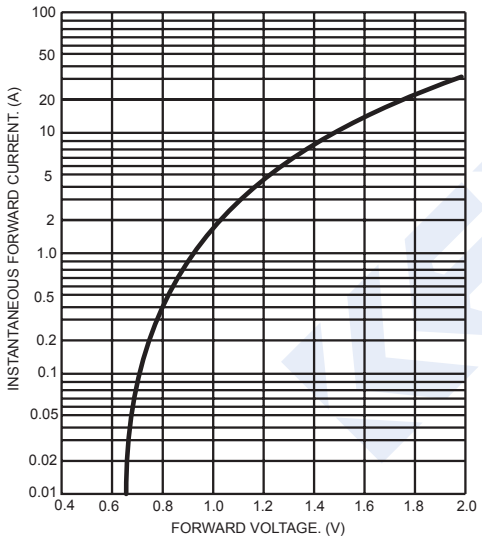


FIG.4- TYPICAL REVERSE CHARACTERISTICS

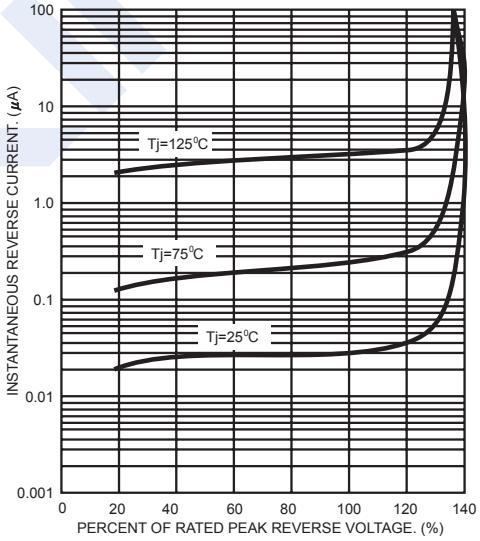


FIG.5- TYPICAL JUNCTION CAPACITANCE