



Micro Commercial Components



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S1A-L
THRU
S1M-L

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
For Surface Mount Applications
Halogen free available upon request by adding suffix "-HF"
Extremely Low Thermal Resistance
Easy Pick And Place
High Temp Soldering:260°C for 10Seconds At Terminals
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
Storage Temperature: -55°C to +150°C
Maximum Thermal Resistance; 30°C/W Junction To Lead

Table with 5 columns: MCC Catalog Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include S1A-L through S1M-L.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Conditions. Rows include Average Forward current, Peak Forward Surge Current, Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current, Typical Junction Capacitance, Maximum Reverse Recovery Time.

\*Pulse test: Pulse width 300 µsec, Duty cycle 2%
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

1 Amp
Silicon Rectifier
50 to 1000 Volts

DO-214AA
(SMB) (Lead Frame)

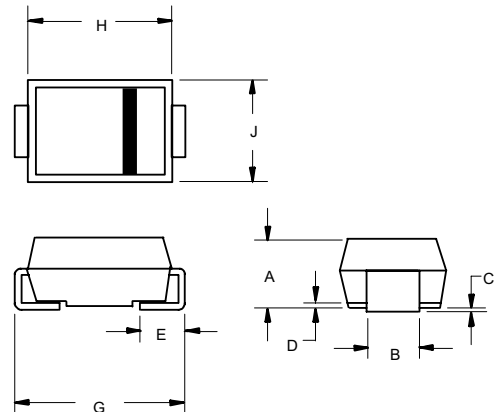
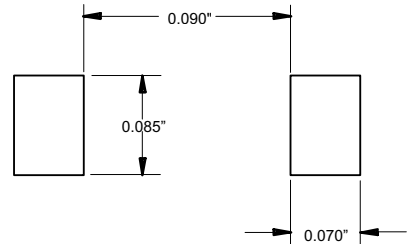


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows include dimensions A through J.

SUGGESTED SOLDER PAD LAYOUT



# S1A-L thru S1M-L

Figure 1  
Typical Forward Characteristics

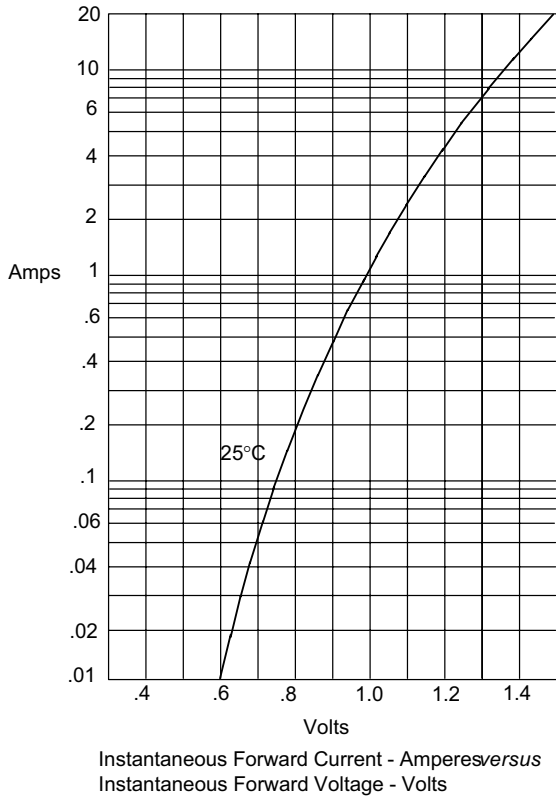
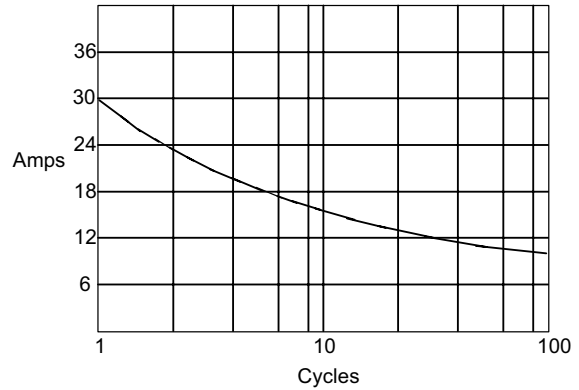
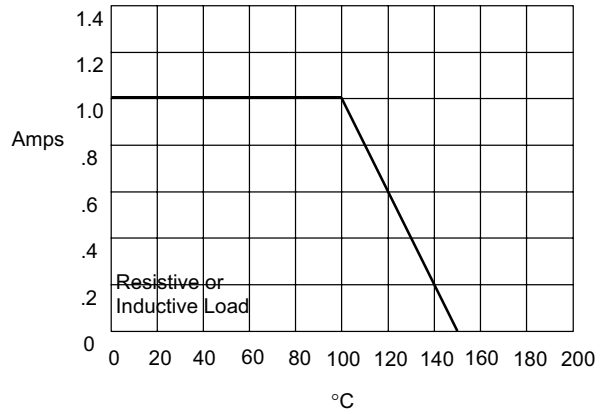


Figure 3  
Maximum Overload Surge Current



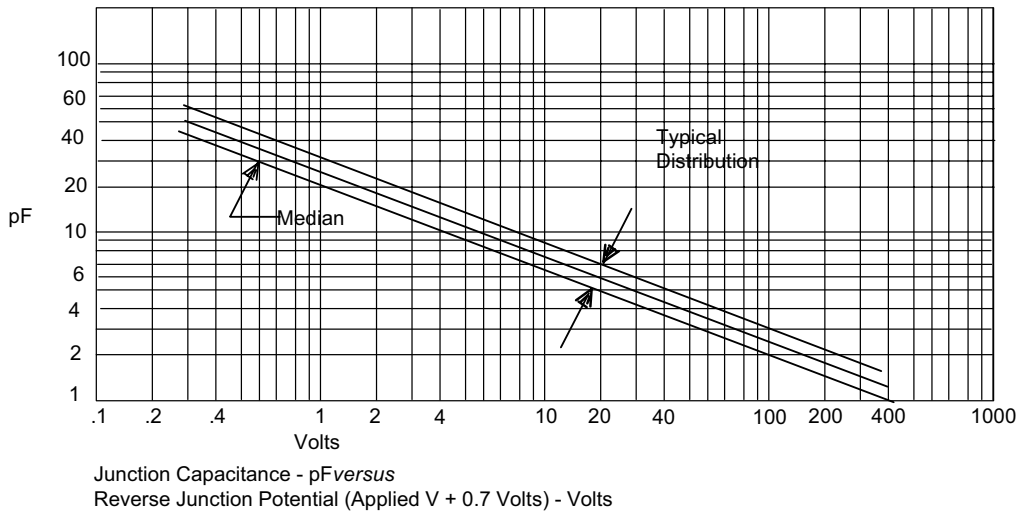
Peak Forward Current - Amperes versus  
Number of Cycles at 60Hz

Figure 4  
Forward Derating Curve



Average Forward Rectified Current - Amperes versus  
Ambient Temperature - °C

Figure 2  
Junction Capacitance



Junction Capacitance - pF versus  
Reverse Junction Potential (Applied V + 0.7 Volts) - Volts



TM

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### Ordering Information :

Device	Packing
S1A-LTP~S1M-LTP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. S1A-LTP-HF~S1M-LTP-HF

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