

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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S1A-L **THRU** S1M-L

- 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

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
S1A-L	S1A	50V	35V	50V
S1B-L	S1B	100V	70V	100V
S1D-L	S1D	200V	140V	200V
S1G-L	S1G	400V	280V	400V
S1J-L	S1J	600V	420V	600V
S1K-L	S1K	800V	560V	800V
S1M-L	S1M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

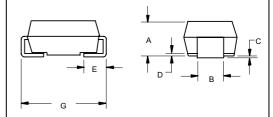
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Average Forward current	$I_{F(AV)}$	1.0A	T _J = 100°C			
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine,			
Maximum Instantaneous Forward Voltage	V_{F}	1.1V	I _{FM} = 1.0A; T _J = 25°C*			
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	T _J = 25°C T _J = 125°C			
Typical Junction Capacitance	С	12pF	Measured at 1.0MHz, V _R =4.0V			
Maximum Reverse Recovery Time	Τ _π	2.0μs	$I_F = 0.5A; I_R = 1.0A;$ $I_{rr} = 0.25A;$			

^{*}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)



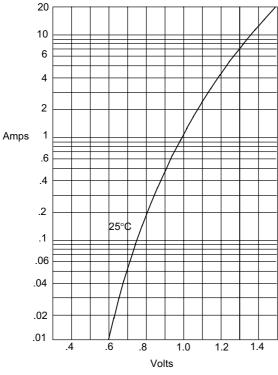
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.075	.095	1.91	2.41		
В	.077	.083	1.96	2.10		
С	.002	.008	.05	.20		
D		.02		.51		
Е	.030	.060	.76	1.52		
G	.200	.220	5.08	5.59		
Η	.160	.187	4.06	4.75		
J	.130	.155	3.30	3.94		
SUGGESTED SOLDER						

PAD LAYOUT — 0.090" — 0.085 0.070"

S1A-L thru S1M-L

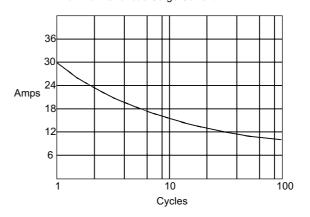


Figure 1
Typical Forward Characteristics



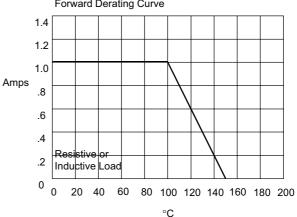
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 3 Micro Commercial Components Maximum Overload Surge Current



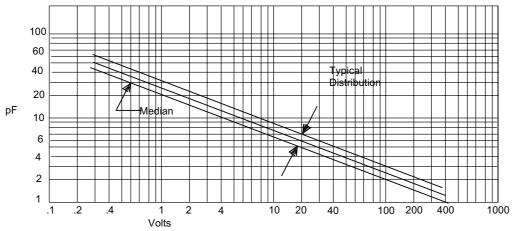
Peak Forward Current - Amperes*versus* Number of Cycles at 60Hz

Figure 4
Forward Derating Curve



Average Forward Rectified Current - Amperes/ersus Ambient Temperature - $^{\circ}$ C

Figure 2 Junction Capacitance



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



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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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