### NOT RECOMMENDED FOR NEW DESIGNS **USE S2A-LTP~S2M-LTP SERIES**



**Micro Commercial Components** 



**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

### Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- For Surface Mount Applications
- Low Thermal Resistance
- Easy Pick And Place
- High Temp Soldering: 260 °C for 10 Seconds At Terminals Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Power Dissipation 2.35W

#### Maximum Rat as

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance: 16°C/W Junction To Lead 53°C/W Junction To Ambient

MCC	Device	Maximum	Maximum	Maximum	
Catalog	Marking	Recurrent	RMS	DC	
Number	_	Peak Reverse	Voltage	Blocking	
		Voltage	_	Voltage	
S2A	S2A	50V	35V	50V	
S2B	S2B	100V	70V	100V	
S2D	S2D	200V	140V	200V	
S2G	S2G	400V	280V	400V	
S2J	S2J	600V	420V	600V	
S2K	S2K	800V	560V	800V	
S2M	S2M	1000V	700V	1000V	

### Electrical Characteristics @ 25°C Unless Otherwise Specified

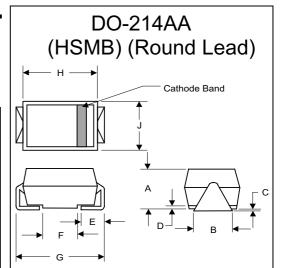
Average Forward current	I <sub>F(AV)</sub>	2.0A	T <sub>J</sub> = 75°C	
Peak Forward Surge	I <sub>FSM</sub>	50A	8.3ms, half sine,	
Current			T <sub>J</sub> = 150°C	
Maximum			I <sub>FM</sub> = 2.0A;	
Instantaneous	V <sub>F</sub>	1.15V	T」 = 25°C*	
Forward Voltage				
Maximum DC				
Reverse Current At	I <sub>R</sub>	10μΑ	T <sub>J</sub> = 25°C	
Rated DC Blocking		50μΑ	T <sub>J</sub> = 125°C	
Voltage				
Maximum Reverse	T <sub>rr</sub>	2.0µs	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A,	
Recovery Time			I <sub>rr</sub> =0.25A	
Typical Junction	CJ	30pF	Measured at	
Capacitance			1.0MHz, V <sub>R</sub> =4.0V	
Pulse test: Pulse width 300 usec. Duty cycle 2%				

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

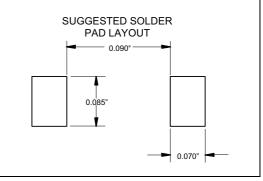
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S2A THRU S2M

# 2 Amp **Silicon Rectifier** 50 to 1000 Volts

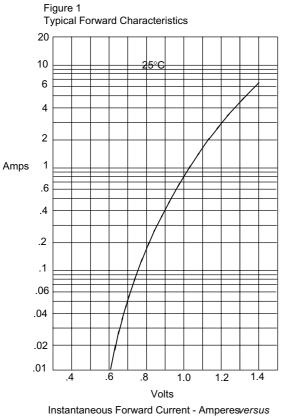


DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
А	.078	.116	1.98	2.95		
В	.075	.089	1.90	2.25		
С	.002	.008	.05	.20		
D		.02		.51		
E	.035	.055	.90	1.40		
F	.065	.091	1.65	2.32		
G	.205	.224	5.21	5.69		
Н	.160	.180	4.06	4.57		
J	.130	.155	3.30	3.94		



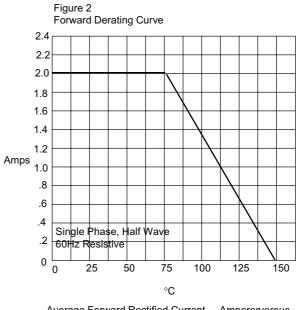


# S2A thru S2M

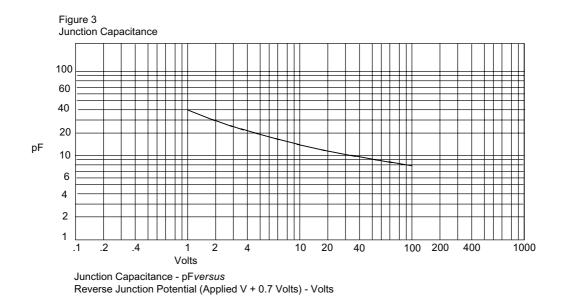


Instantaneous Forward Current - Amperesversu Instantaneous Forward Voltage - Volts



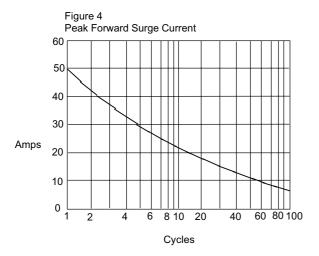


Average Forward Rectified Current - Amperes/ersus Ambient Temperature  $\ \ {}^\circ C$ 



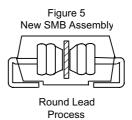
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# S2A thru S2M



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles









### **Ordering Information :**

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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Authorized Distributor

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Micro Commercial Components (MCC):

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