

**Micro Commercial Components** 



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

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information) For Surface Mount Applications
- Extremely 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

### **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	C C	Voltage
S1A	S1A	50V	35V	50V
S1B	S1B	100V	70V	100V
S1D	S1D	200V	140V	200V
S1G	S1G	400V	280V	400V
S1J	S1J	600V	420V	600V
S1K	S1K	800V	560V	800V
S1M	S1M	1000V	700V	1000V

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

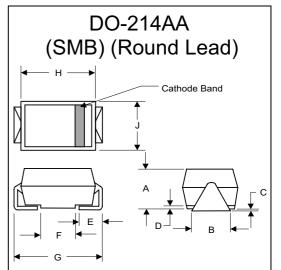
Average Forward current	I <sub>F(AV)</sub>	1.0A	T <sub>J</sub> = 100°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine,
Maximum Instantaneous Forward Voltage	$V_{F}$	1.1V	I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 50μΑ	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Typical Junction Capacitance	CJ	12pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V
Maximum Reverse Recovery Time	Trr	2.0µs	I <sub>F</sub> = 0.5A;I <sub>R</sub> = 1.0A; I <sub>rr</sub> = 0.25A;
Pulse test: Pulse width 300 usec, Duty cycle 2%			

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

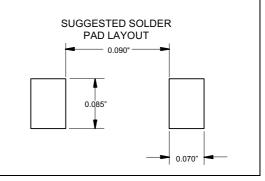
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S1A THRU S1M

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

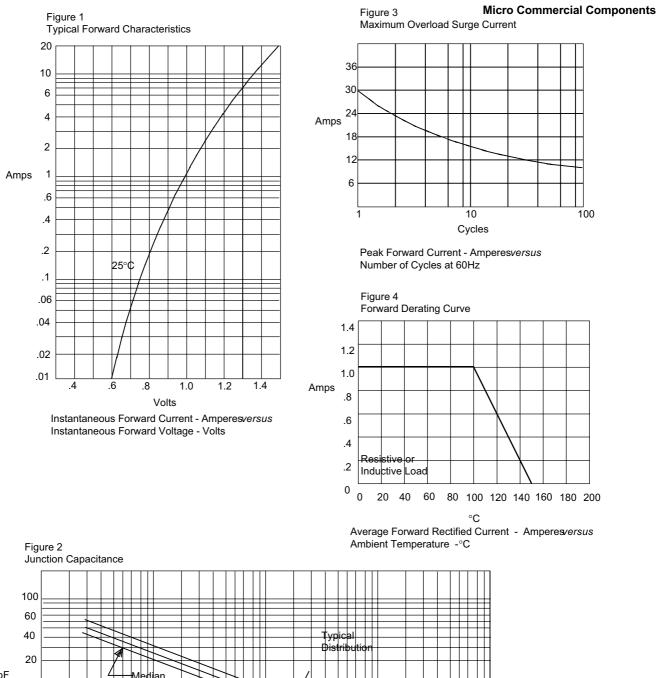


DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
А	.078	.116	1.98	2.95			
В	.075	.089	1.90	2.25			
С	.002	.008	.05	.20			
D		.02		.51			
ш	.035	.055	.90	1.40			
F	.065	.091	1.65	2.32			
G	.205	.224	5.21	5.69			
Н	.160	.180	4.06	4.57			
J	.130	.155	3.30	3.94			



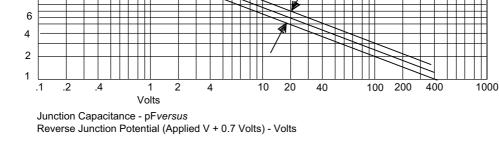
# S1A thru S1M





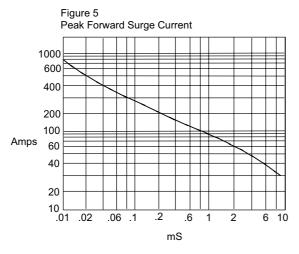
pF

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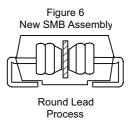
# S1A thru S1M



Peak Forward Surge Current - Amperesversus Pulse Duration - Milliseconds (mS)



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### **Ordering Information :**

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

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