

**Micro Commercial Components** 



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### 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

### **Maximum Ratings**

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

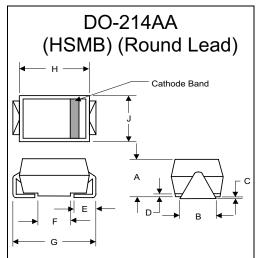
MCC Catalog	Device Marking	Maximum Recurrent	Maximum RMS	Maximum DC
Number		Peak Reverse Voltage	Voltage	Blocking Voltage
S2A	S2A	50V	35V	50V
S2B	S2B	100V	70V	100V
S2D	S2D	200V	140V	200V
S2G	S2G	400V	280V	400V
S2J	S2J	600V	420V	600V
S2K	S2K	800V	560V	800V
S2M	S2M	1000V	700V	1000V

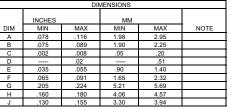
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

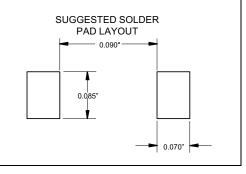
Average Ferward		2.0A	T - 7500	
Average Forward	I <sub>F(AV)</sub>	2.0A	T <sub>J</sub> = 75°C	
current				
Peak Forward Surge	I <sub>FSM</sub>	50A	8.3ms, half sine,	
Current			T <sub>J</sub> = 150°C	
Maximum			I <sub>FM</sub> = 2.0A;	
Instantaneous	V <sub>F</sub>	1.15V	T <sub>J</sub> = 25°C*	
Forward Voltage				
Maximum DC				
Reverse Current At	I <sub>R</sub>	10µA	T <sub>J</sub> = 25°C	
Rated DC Blocking		50μΑ	T₁ = 125°C	
Voltage		•	Ŭ	
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 200 uses. Puty evals 2%				



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







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

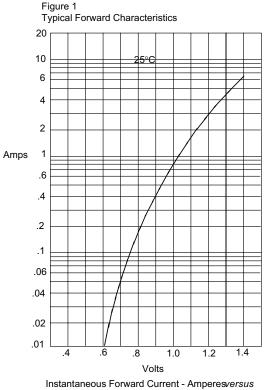
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**Revision:** A

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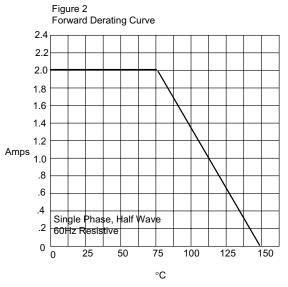
2011/01/01

### S2A thru S2M

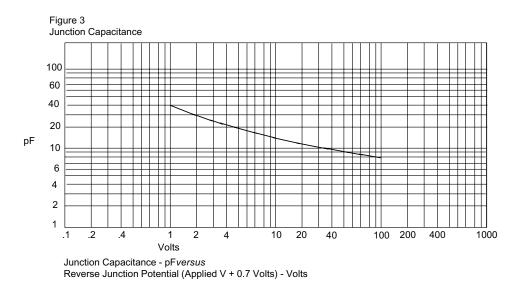


Instantaneous Forward Voltage - Volts





Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

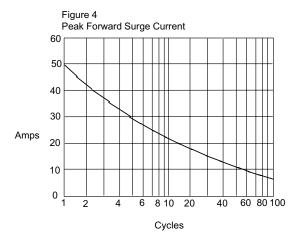


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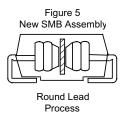
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# S2A thru S2M



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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