

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

# S1Q THRU S1ZZ

## **Features**

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Perfect For Ballast, Television And Monitor Applications

## Maximum Patings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

MCC		Maximum	Maximum	Maximum
Part	Device	Recurrent	RMS	DC
Number	Marking	Peak Reverse	Voltage	Blocking
	_	Voltage		Voltage
S1Q	S1Q	1200V	840V	1200V
S1V	S1V	1400V	980V	1400V
S1Y	S1Y	1600V	1120V	1600V
S1Z	S1Z	1800V	1260V	1800V
S1ZZ	S1ZZ	2000V	1400V	2000V

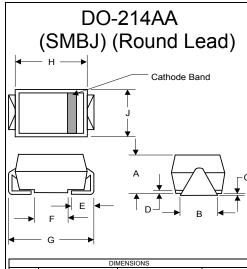
### lectrical Characteristics @25° CUhless Otherwise Specified

Average Forward	I <sub>F(AV)</sub>	1.0A	$T_J = 75^{\circ}C$
Current			
Peak Forward Surge	I <sub>FSM</sub>	30A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
	$V_{F}$	1.10V	$I_{FM} = 1.0A;$
			$T_J = 25^{\circ}C^*$
Maximum DC			
Reverse Current At	I <sub>R</sub>	10.0μΑ	$T_J = 25^{\circ}C$
Rated DC Blocking		500μΑ	$T_J = 125^{\circ}C$
Voltage			
Maximum Reverse			
Recovery Time			
	T <sub>rr</sub>	2.5us	$I_F=0.5A, I_R=1.0A,$
			I <sub>rr</sub> =0.25A
Typical Junction	C₁	15pF	Measured at
Capacitance		•	1.0MHz. V <sub>P</sub> =4.0V

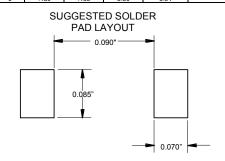
<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 2%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

## 1 Amp Silicon Rectifier 1200 to 2000 Volts



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.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	





### **Ordering Information:**

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

### \*\*\*IMPORTANT NOTICE\*\*\*

**Micro Commercial Components Corp.** reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

#### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.