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 (818) 701-4939 Fax:

S2A **THRU** S₂M

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

- 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

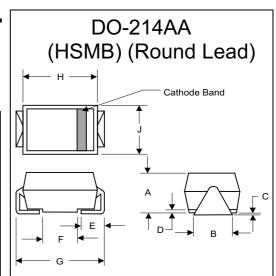
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	$I_{F(AV)}$	2.0A	T _J = 75°C
current			
Peak Forward Surge	I_{FSM}	50A	8.3ms, half sine,
Current			T _J = 150°C
Maximum			$I_{FM} = 2.0A;$
Instantaneous	V_{F}	1.15V	T _J = 25°C*
Forward Voltage			
Maximum DC			
Reverse Current At	I_R	10μΑ	T _J = 25°C
Rated DC Blocking		50μA	T _J = 125°C
Voltage		•	-
Maximum Reverse	T_{rr}	2.0µs	I_F =0.5A, I_R =1.0A,
Recovery Time		•	I _{rr} =0.25A
Typical Junction	C_{J}	30pF	Measured at
Capacitance			1.0MHz, V _R =4.0V

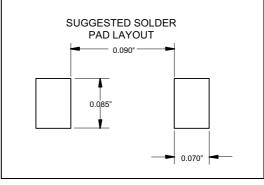
^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

2 Amp Silicon Rectifier 50 to 1000 Volts



DIMENSIONS							
	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			

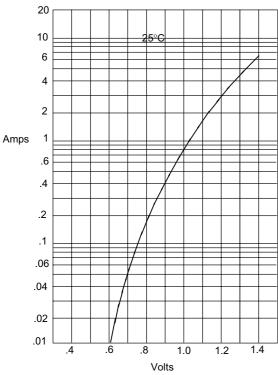


S2A thru S2M

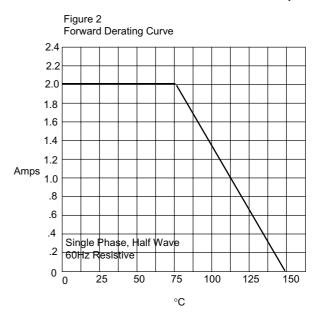
 $\cdot M \cdot C \cdot C \cdot$

Micro Commercial Components

Figure 1 Typical Forward Characteristics

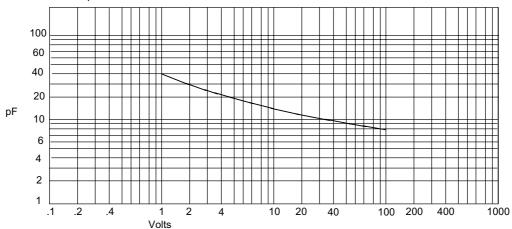


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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

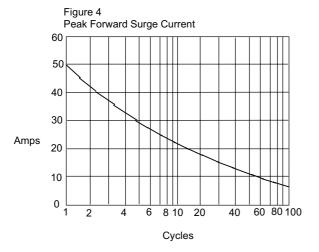


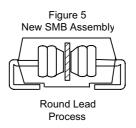


Junction Capacitance - pF*versus*Reverse Junction Potential (Applied V + 0.7 Volts) - Volts

S2A thru S2M







Peak Forward Surge Current - Amperes*versus* Number Of Cycles At 60Hz - Cycles



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.