

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

2 Amp Silicon Rectifier 50 to 1000 Volts

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

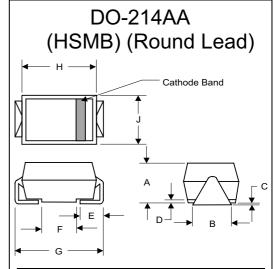
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	-	Voltage
S2A	S2A	50V	35V	50V
S2B	S2B	100V	70V	100V
S2D	S2D	200V	140V	200V
S2G	S2G	400V	280V	400V
S2J	S2J	600V	420V	600V
S2K	S2K	800V	560V	800V
S2M	S2M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

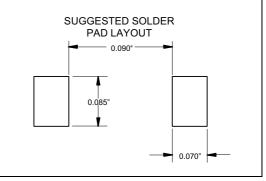
Average Forward current	I _{F(AV)}	2.0A	T _J = 75°C			
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine, T _J = 150°C			
Maximum Instantaneous Forward Voltage	V_{F}	1.15V	I _{FM} = 2.0A; T _J = 25°C*			
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 50μΑ	T _J = 25°C T _J =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



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		
Ι	.160	.180	4.06	4.57		
J	.130	.155	3.30	3.94		

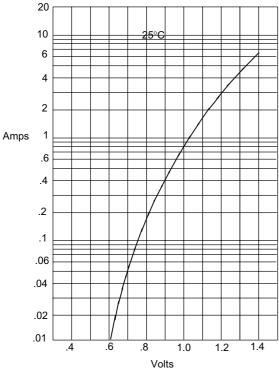


S2A thru S2M

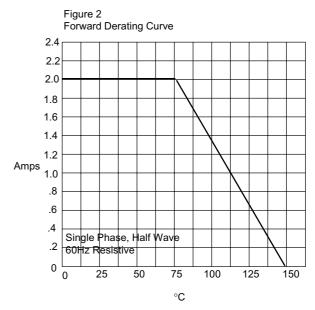
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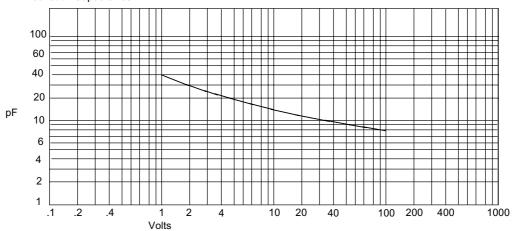


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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





Junction Capacitance - pFversus Reverse Junction Potential (Applied V + 0.7 Volts) - Volts

S2A thru S2M

0



Figure 4
Peak Forward Surge Current

60

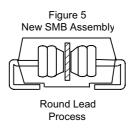
40

30

Amps

20

10



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

8 10 20

Cycles

60 80 100

6



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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