

Micro Commercial Components

ROHS

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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S3A THRU S3M

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- For Surface Mount Applications
- Low Thermal Resistance
- High Current Capability
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -55°C to +150°C
 Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 10°C/W Junction To Lead

MCC Part Device		Maximum Recurrent	Maximum RMS	Maximum DC
Number	Marking	Peak Reverse	Voltage	Blocking
Number Marking		Voltage		Voltage
S3A	S3A	50V	35V	50V
S3B	S3B	100V	70V	100V
S3D	S3D	200V	140V	200V
S3G	S3G	400V	280V	400V
S3J	S3J	600V	420V	600V
S3K	S3K	800V	560V	800V
S3M	S3M	1000V	700V	1000V

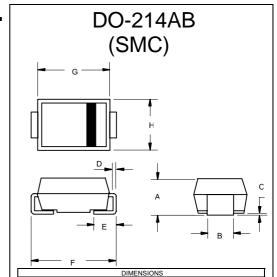
Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	$I_{F(AV)}$	3.0A	T _a = 120°C	
Peak Forward Surge Current	I _{FSM}	100A	8.3ms, half sine	
Maximum Instantaneous Forward Voltage	V _F	1.20V	I _{FM} = 3.0A; T _J = 25°C*	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 250μΑ	$T_{J} = 25^{\circ}C$ $T_{J} = 125^{\circ}C$	
Typical Junction Capacitance	С	60pF	Measured at 1.0MHz, V _R =4.0V	

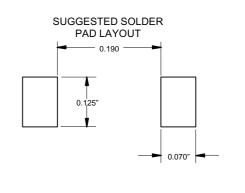
^{*}Pulse test: Pulse width 200 μsec, Duty cycle 2%

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

3 Amp Silicon Rectifier 50 to 1000 Volts

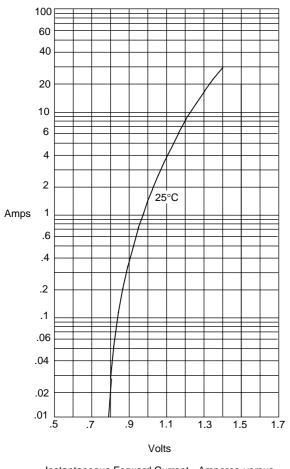


	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.079	.103	2.00	2.62	
В	.108	.128	2.75	3.25	
O	.002	.008	0.051	0.203	
D	.006	.012	0.152	0.305	
Е	.030	.060	0.76	1.52	
F	305	.320	7.75	8.13	
G	.260	.280	6.60	7.11	
Н	.220	.245	5.59	6.22	

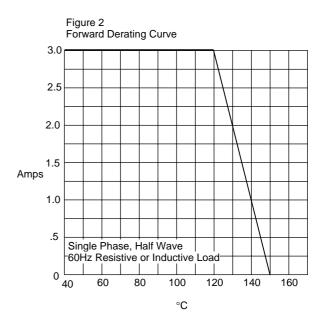




Typical Forward Characteristics



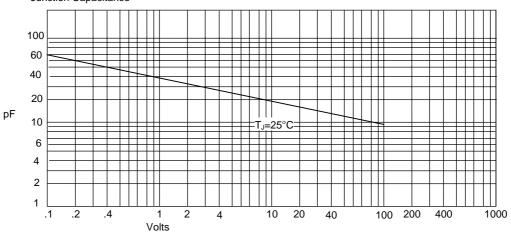
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Average Forward Rectified Current - Amperes versus Ambient Temperature - °C

Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

Figure 3 Junction Capacitance



Junction Capacitance - pF versus Reverse Voltage - Volts



Figure 4
Typical Reverse Characteristics

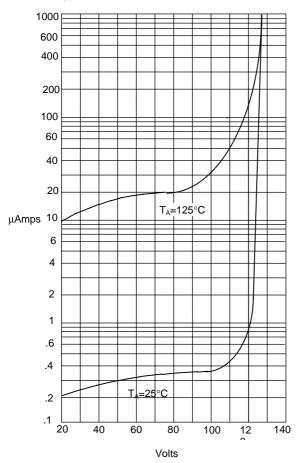


Figure 5
Peak Forward Surge Current

150
125
100
75
50
25
0
1 2 4 6 8 10 20 40 60 80 100

Cycles

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

Instantaneous Reverse Leakage Current - MicroAmperes *versus* Percent Of Rated Peak Reverse Voltage - Volts



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Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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