imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

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 Number		Maximum	Maximum	Maximum
	Device Marking	Recurrent	RMS	DC
		Peak Reverse	Voltage	Blocking
		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

Average Forward Current	I _{F(AV)}	3.0A	T _a = 120°C
Peak Forward Surge	I _{FSM}	100A	8.3ms, half sine
Current			
Maximum			
Instantaneous	VF	1.20V	I _{FM} = 3.0A;
Forward Voltage			$T_J = 25^{\circ}C^*$
Maximum DC			
Reverse Current At	I _R	10µA	T _{.1} = 25°C
Rated DC Blocking		250μA	T _. = 125°C
Voltage		[-	0
Typical Junction	CJ	60pF	Measured at
Capacitance		•	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

S₃A

THRU

S₃M

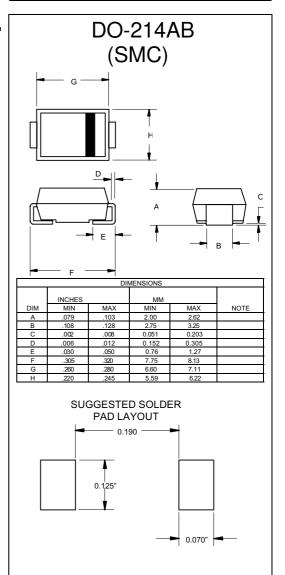




Figure 1 Typical Forward Characteristics

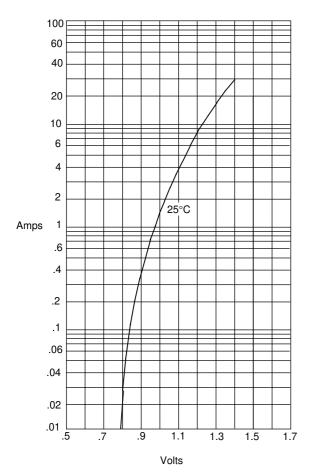
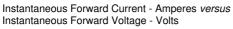
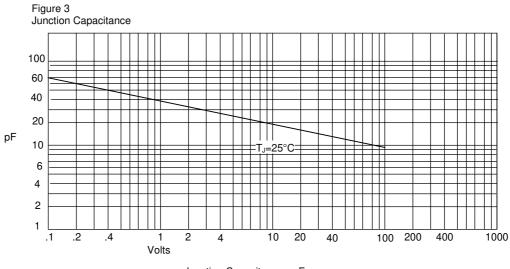


Figure 2 Forward Derating Curve 3.0 2.5 2.0 1.5 Amps 1.0 .5 Single Phase, Half Wave -60Hz Resistive or Inductive Load 0 60 80 100 120 140 160 40 °C

Average Forward Rectified Current - Amperes versus Ambient Temperature - $^\circ \mathrm{C}$

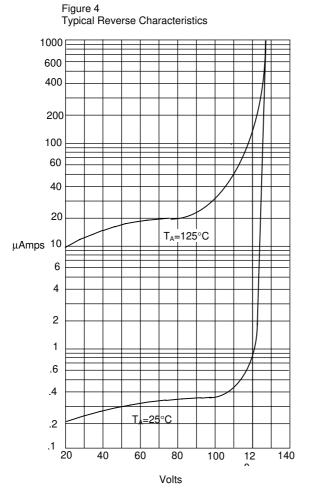




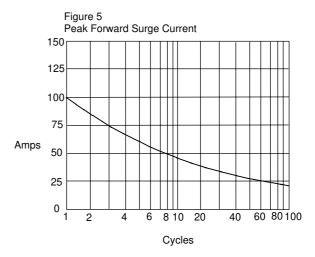


S3A thru S3M





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



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



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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