# 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)
- Low Leakage Current
- Glass Passivated Junction
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

#### **Maximum Ratings**

- Operating Temperature(Tj): -65<sup>°</sup>C to +175<sup>°</sup>C
- Storage Temperature(Tstg): -65°C to +175°C
- Typical Thermal Resistance(RthJA): 50°C/W

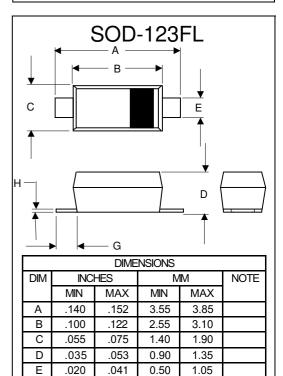
۰.									
			Maximum		Maximum				
	MCC	Device	Recurrent	Maximum	DC				
	Part Number	Marking	Peak Reverse	RMS	Blocking				
			Voltage	Voltage	Voltage				
	SM4001PL	A1	50V	35V	50V				
	SM4002PL	A2	100V	70V	100V				
	SM4003PL	A3	200V	140V	200V				
	SM4004PL	A4	400V	280V	400V				
	SM4005PL	A5	600V	420V	600V				
	SM4006PL	A6	800V	560V	800V				
	SM4007PL	A7	1000V	700V	1000V				

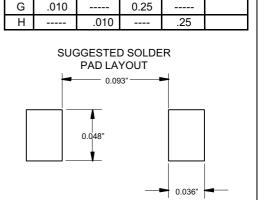
Electrical Characteristics @ 25  $^\circ C$  Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	1.0 A	T <sub>A</sub> = 75°C
Peak Forward Surge Current	I <sub>FSM</sub>	25A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.1V	T <sub>A</sub> = 25℃ I⊧=1A
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μA 50uA	T <sub>A</sub> = 25℃ T <sub>A</sub> =100℃
Maximum Full Load Reverse Current Average ,Full Cycle 9.5mm Lead Length	I <sub>R</sub>	30uA	TL=75 ℃
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

### SM4001PL thru SM4007PL

### 1.0 Ampere Silion Rectifier 50 to 1000 Volts

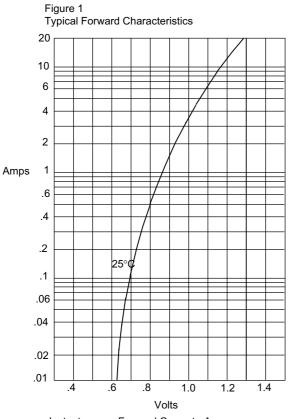




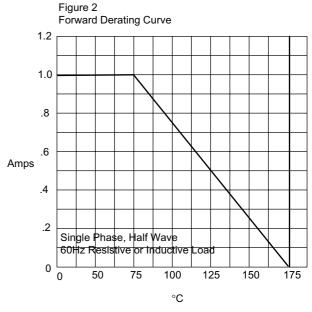
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

#### SM4001PL thru SM4007PL

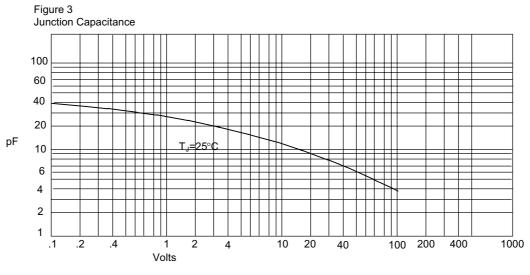




Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



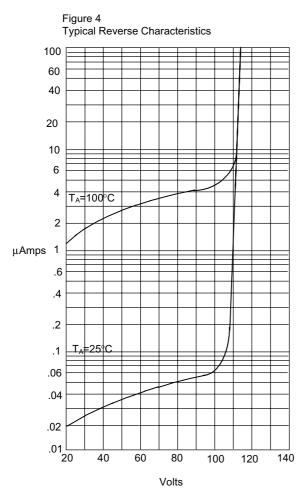
Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

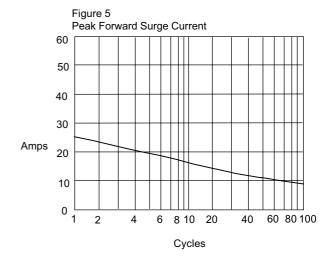


Junction Capacitance - pF*versus* Reverse Voltage - Volts

### SM4001PL thru SM4007PL







Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts



#### **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel: 2.5 Kpcs/Reel

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

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

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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.

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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.