

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
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

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

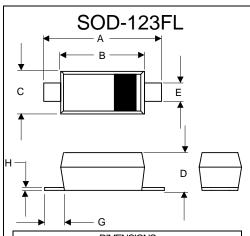
		Maximum		Maximum	
MCC	Device	Recurrent	Maximum	DC	
Part Number	Marking	Peak Reverse	RMS	Blocking	
	-	Voltage	Voltage	Voltage	
SM4001PL	A1	50V	35V	50V	
SM4002PL	A2	100V	70V	100V	
SM4003PL	A3	200V	140V	200V	
SM4004PL	A4	400V	280V	400V	
SM4005PL	A5	600V	420V	600V	
SM4006PL	A6	800V	560V	800V	
SM4007PL	A7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

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

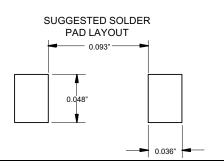
	-		=
Average Forward Current	I _{F(AV)}	1.0 A	T _A = 75 ℃
Peak Forward Surge Current	I _{FSM}	30.0A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.1V	T _A = 25℃ I⊧=1A
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 50uA	T _A = 25℃ T _A =100 ℃
Maximum Full Load Reverse Current Average ,Full Cycle 9.5mm Lead Length	I _R	30uA	TL=75 ℃
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V

SM4001PL thru SM4007PL

1.0 Ampere Silion Rectifier 50 to 1000 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX			
А	.140	.152	3.55	3.85			
В	.100	.112	2.55	2.85			
С	.055	.071	1.40	1.80			
D	.037	.053	0.95	1.35			
Е	.020	.039	0.50	1.00			
G	.010		0.25				
Н		.008		.20			



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

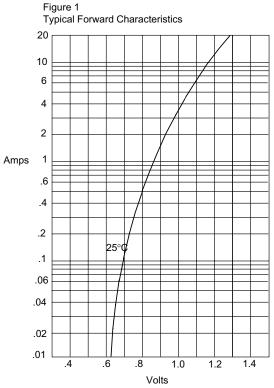
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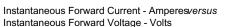
Revision: A

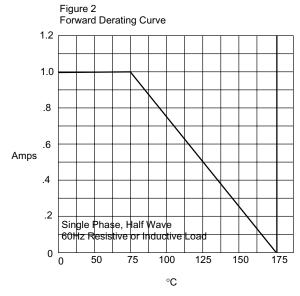
SM4001PL thru SM4007PL



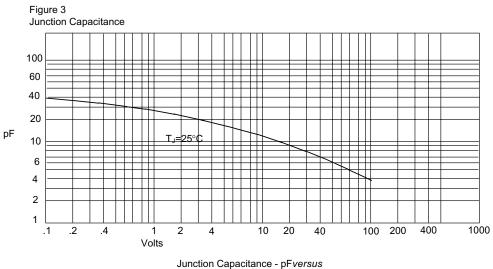
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Average Forward Rectified Current - Amperes/ersus Ambient Temperature $\ -^{\circ}C$



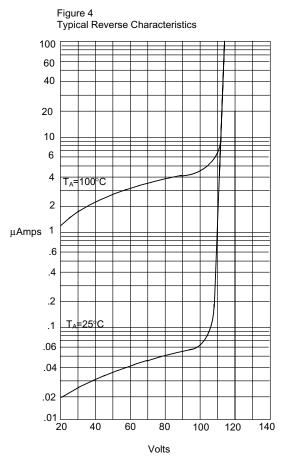
Reverse Voltage - Volts

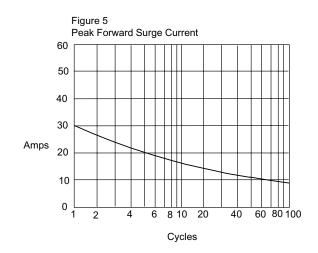
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SM4001PL thru SM4007PL







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: 2.5Kpcs/Reel	

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