

ROHS

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

SM4001PL thru SM4007PL

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°C to +175°C
- Storage Temperature(Tsтg): -65°C to +175°C
- Typical Thermal Resistance(R_{thJA}): 50°C/W

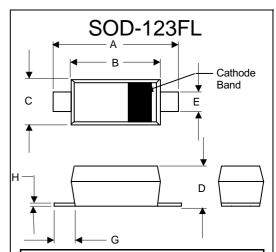
		Maximum		Maximum
MCC	Device	Recurrent	Maximum	DC
Part Number	Marking	Peak Reverse	RMS	Blocking
		Voltage	Voltage	Voltage
SM4001PL	A1	50V	35V	50V
SM4002PL	A2	100V	70V	100V
SM4003PL	A3	200V	140V	200V
SM4004PL	A4	400V	280V	400V
SM4005PL	A5	600V	420V	600V
SM4006PL	A6	800V	560V	800V
SM4007PL	A7	1000V	700V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

Electrical Characteristics @ 25°C Unless Otherwise Specified

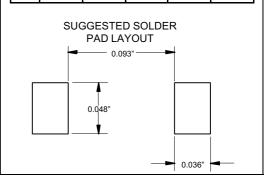
Average Forward Current	I _{F(AV)}	1.0 A	T _A = 75°C
Peak Forward Surge Current	I _{FSM}	25A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.1V	I _F =1.0A T _A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 50uA	T _A = 25°C T _A =100°C
Maximum Full Load Reverse Current Average ,Full Cycle 9.5mm Lead Length	I _R	30uA	TL=75 ℃
Typical Junction Capacitance	C _J	15pF	Measured at 1.0MHz, V _R =4.0V
Typical Reverse Recovery Time	T_{rr}	>1000ns	I _F =0.5A,I _R =1.0A I _{RR} =0.25A

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

1.0 Ampere Silion Rectifier 50 to 1000 Volts

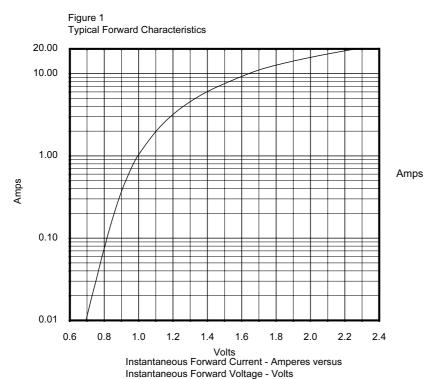


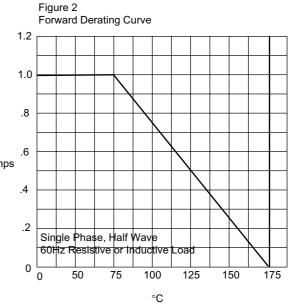
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
Α	.140	.152	3.55	3.85		
В	.100	.122	2.55	3.10		
С	.055	.075	1.40	1.90		
D	.035	.047	0.90	1.20		
Е	.020	.041	0.50	1.05		
G	.010		0.25			
Η		.010		.25		



SM4001PL thru SM4007PL

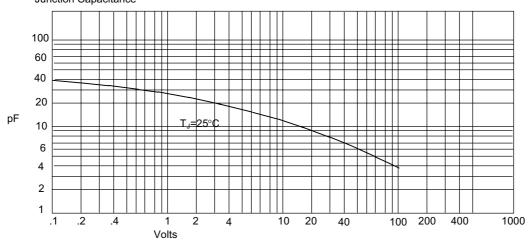






Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



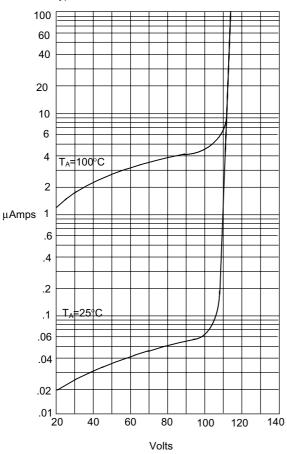


Junction Capacitance - pF*versus* Reverse Voltage - Volts

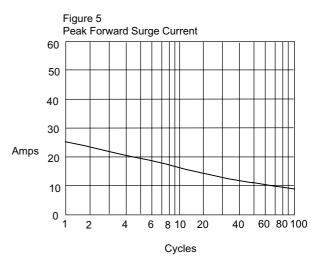
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Figure 4
Typical Reverse Characteristics



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



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



Ordering Information:

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

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

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