

Micro Commercial Components



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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(Tstg): -65°C to +175°C
- Typical Thermal Resistance(Rthua): 50°C/W

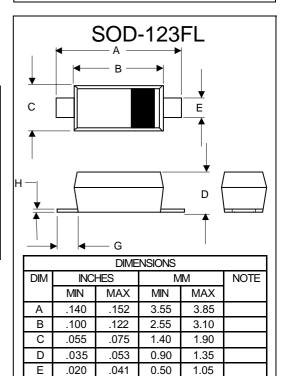
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			Maximum		Maximum				
	MCC	Device	Recurrent	Maximum	DC				
	Part Number	Marking	Peak Reverse	RMS	Blocking				
			Voltage	Voltage	Voltage				
	SM4001PL	A1	50V	35V	50V				
	SM4002PL	A2	100V	70V	100V				
	SM4003PL	A3	200V	140V	200V				
	SM4004PL	A4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

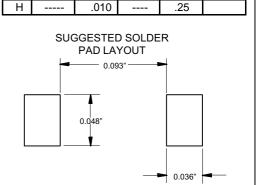
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0 A	T _A = 75℃
Peak Forward Surge Current	I _{FSM}	25A	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





0.25

.020

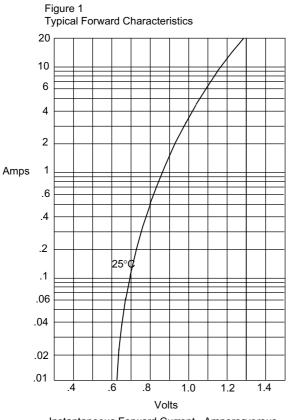
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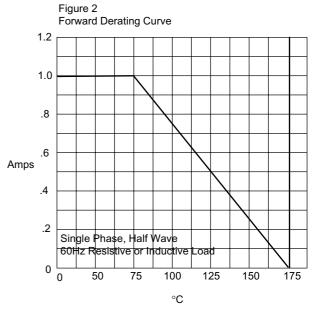
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

SM4001PL thru SM4007PL

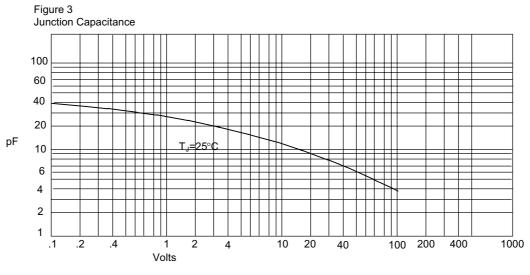




Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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



Junction Capacitance - pF*versus* Reverse Voltage - Volts

SM4001PL thru SM4007PL



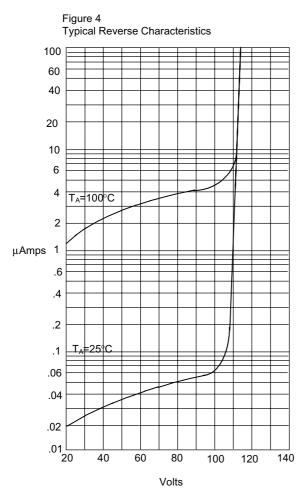


Figure 5 Peak Forward Surge Current 60 50 40 30 Amps 20 10 0 60 80 100 2 20 1 4 6 8 10 40 Cycles

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

Instantaneous Reverse Leakage Current - MicroAmperesersus 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

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