

Micro Commercial Components

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

Features

- For Surface Mount Application
- Low Leakage Current
- Glass Passivated Junction
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

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

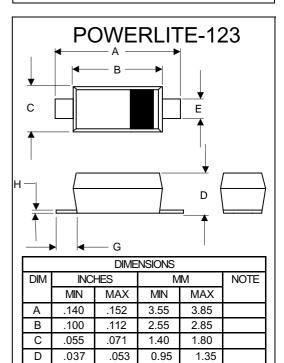
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			Maximum		Maximum	
	MCC	Device	Recurrent	Maximum	DC	
	Part Number	Marking	Peak Reverse	RMS	Blocking	
			Voltage	Voltage	Voltage	
	SM4001PL	A1	50V	35V	50V	
	SM4002PL	A2	100V	70V	100V	
	SM4003PL	A3	200V	140V	200V	
	SM4004PL	A4	400V	280V	400V	
1	SM4005PL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

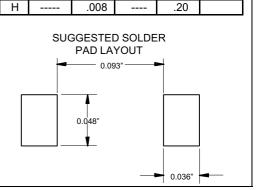
Electrical Characteristics @ 25 $^\circ C$ Unless Otherwise Specified

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°C 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	T∟=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





0.50

0.25

.039

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.020

.010

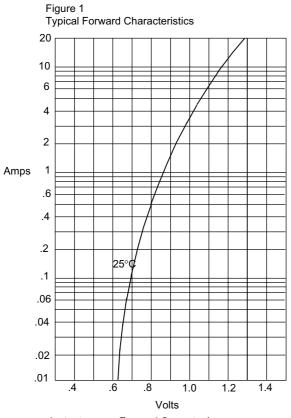
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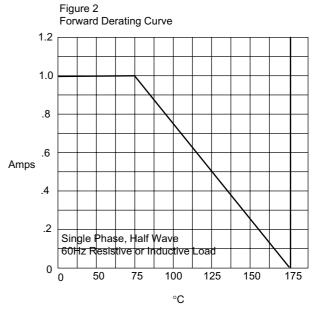
SM4001PL thru SM4007PL



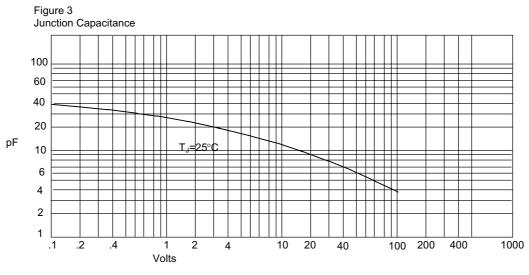
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Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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



Junction Capacitance - pF*versus* Reverse Voltage - Volts

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SM4001PL thru SM4007PL



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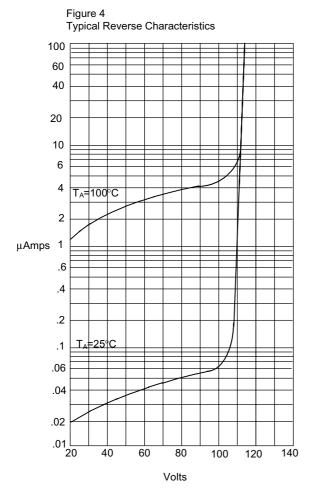


Figure 5 Peak Forward Surge Current 60 50 40 30 Amps 20 10 0 20 60 80 100 2 4 6 8 10 40 Cycles

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

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

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