勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

SM4001PL thru SM4007PL

1.0 Ampere Silion Rectifier 50 to 1000 Volts

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

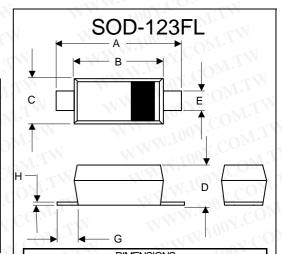
- Operating Temperature(Tj): -65℃ to +175℃
- Storage Temperature(TsTG): -65 $^{\circ}$ C to +175 $^{\circ}$ C
- Typical Thermal Resistance(R_{thJA}): 50[°]C/W

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking 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	V008
SM4007PL	A7	1000V	700V	1000V

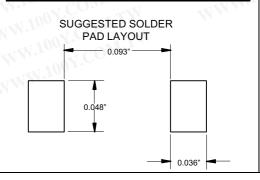
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	T _A = 25°C I _F =1A
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	CJ	15pF	Measured at 1.0MHz, V _R =4.0V





		DIIVIE	INDIONO	-11	0~
DIM	DIM INCHES		N	1M	NOTE
-7 (MIN	MAX	MIN	MAX	
Α	.140	.152	3.55	3.85	100 3
В	.100	.112	2.55	2.85	400
С	.055	.071	1.40	1.80	N.In.
D	.037	.053	0.95	1.35	-xī 10
E.	.020	.039	0.50	1.00	44
G	.010	Mrr ,	0.25		WW.
, Ho	7	.008	·	.20	-41

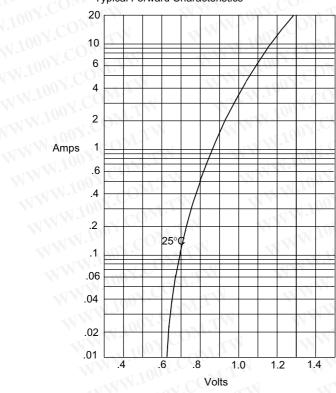


SM4001PL thru SM4007PL

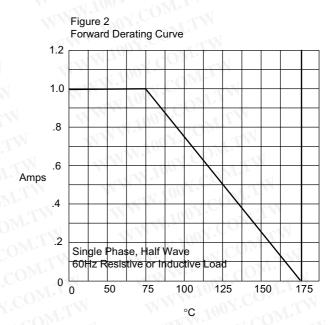


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Figure 1
Typical Forward Characteristics



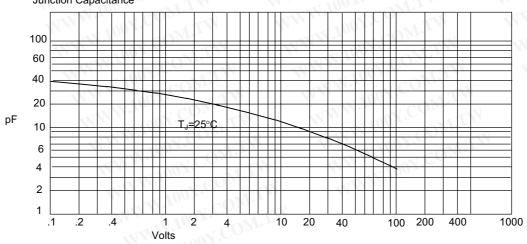
Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts



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

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Figure 3
Junction Capacitance



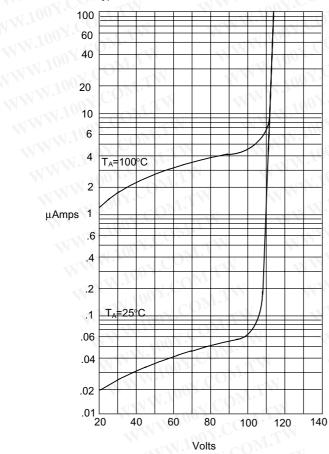
Junction Capacitance - pF*versus* Reverse Voltage - Volts

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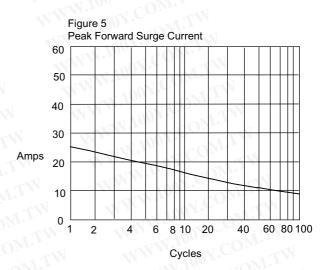


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WW.100Y.COM.TW Figure 4 Typical Reverse Characteristics



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



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles WWW.100Y.COM.TW

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Ordering Information:

NWW.100Y.COM.TW

Device Part Number-TP		Packing		
		CM.TW	Tape&Reel: 2.5Kpcs/Reel	=1
WWW.100Y.COM.TW	MMM.100X	COM.TW	WWW.100Y.COM.TW	

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