



**THE DATASHEET OF
SM4002PL-TP**





Micro Commercial Components



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

Table with 5 columns: MCC Part Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include SM4001PL through SM4007PL.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Conditions. Rows include Average Forward Current, Peak Forward Surge Current, Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current, Maximum Full Load Reverse Current, Typical Junction Capacitance, and Typical Reverse Recovery Time.

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

1.0 Ampere
Silicon Rectifier
50 to 1000 Volts

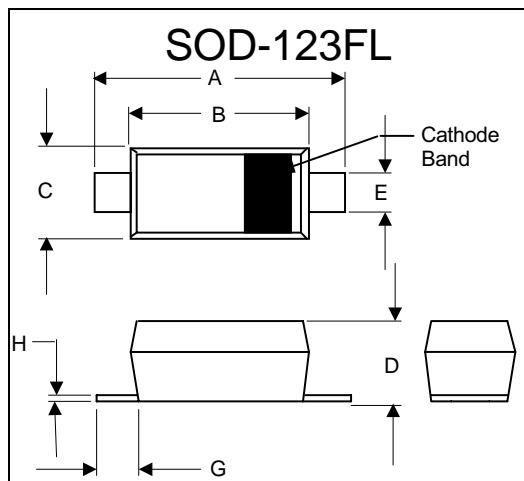
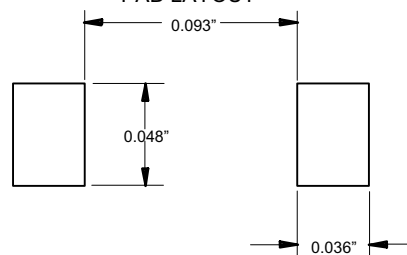


Table with 5 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows list dimensions A through H.

SUGGESTED SOLDER PAD LAYOUT



SM4001PL thru SM4007PL

Figure 1
Typical Forward Characteristics

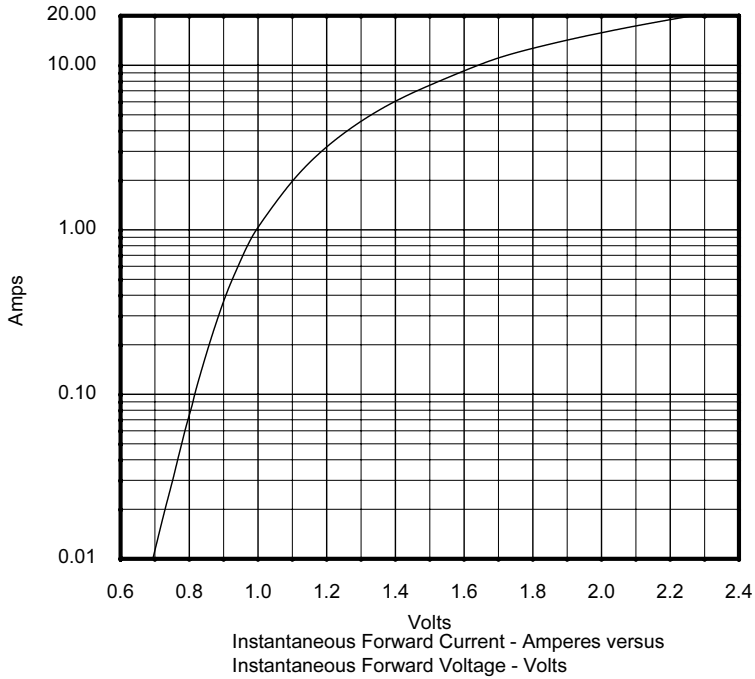


Figure 2
Forward Derating Curve

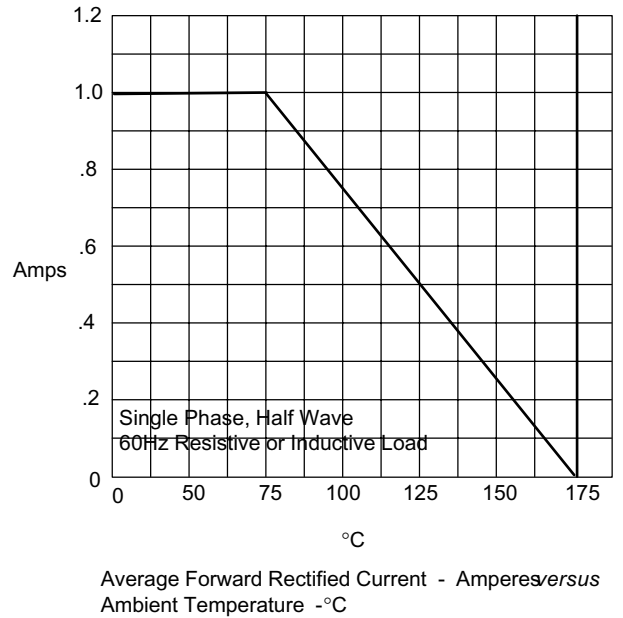


Figure 3
Junction Capacitance

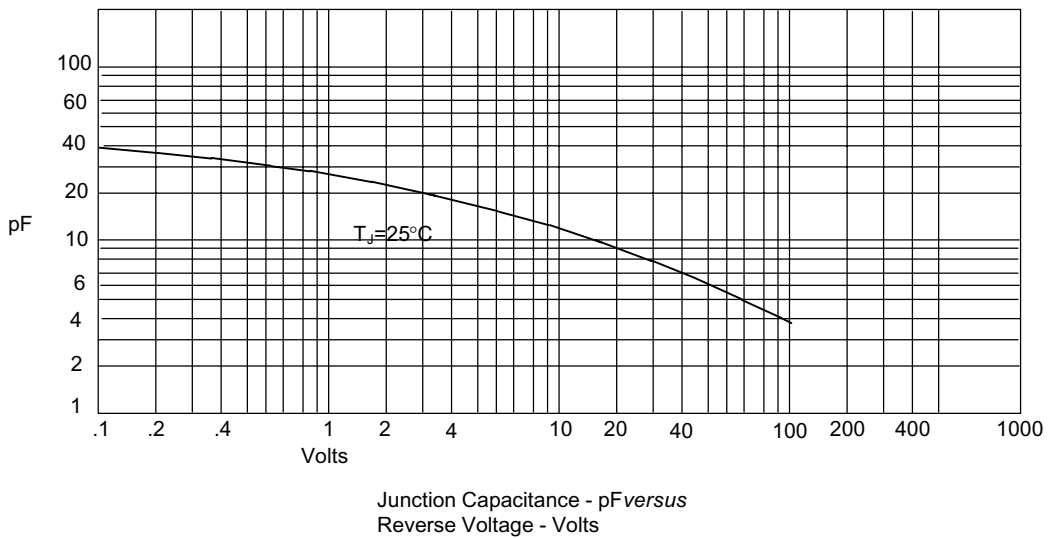
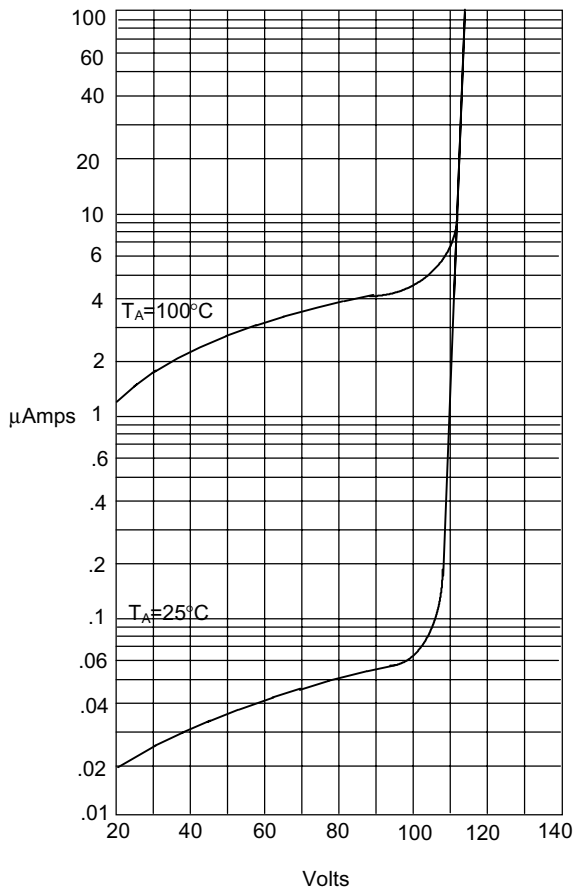
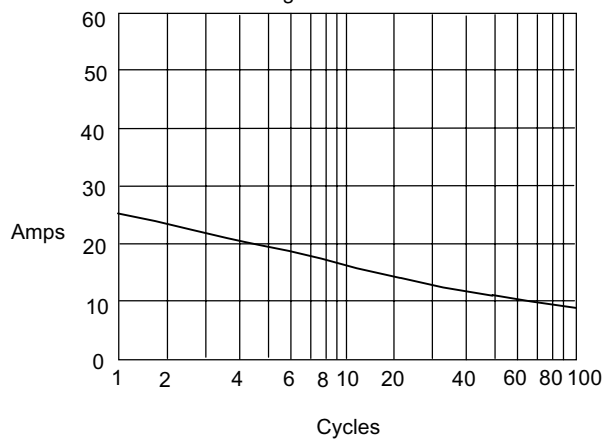


Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles



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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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