



Micro Commercial Components



Micro Commercial Components
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SM4001PL
thru
SM4007PL

Features

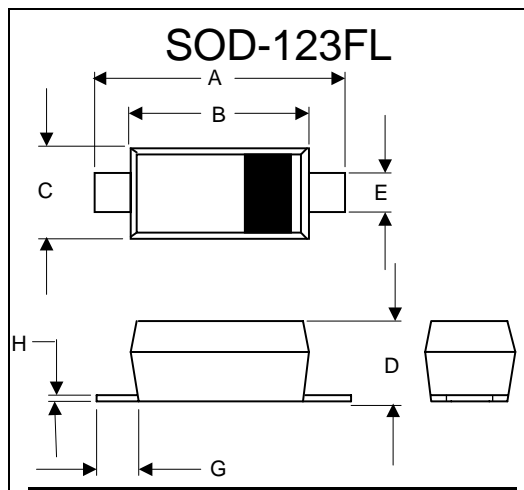
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
Low Leakage Current
Glass Passivated Junction
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1

1.0 Ampere
Silicon Rectifier
50 to 1000 Volts

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.

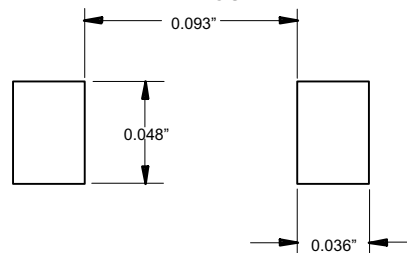


Electrical Characteristics @ 25°C Unless Otherwise Specified

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 At Rated DC Blocking Voltage, Maximum Full Load Reverse Current Average, Full Cycle 9.5mm Lead Length, Typical Junction Capacitance.

DIMENSIONS table with columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows include dimensions A through H.

SUGGESTED SOLDER PAD LAYOUT



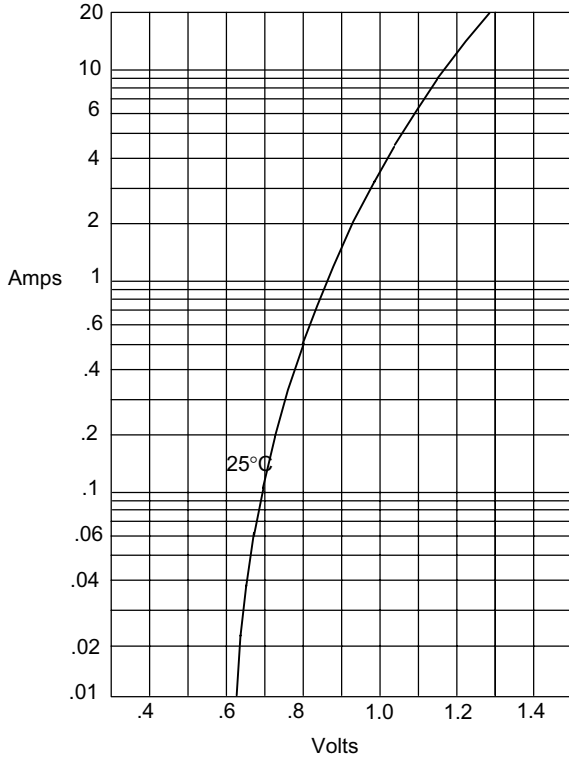
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

SM4001PL thru SM4007PL



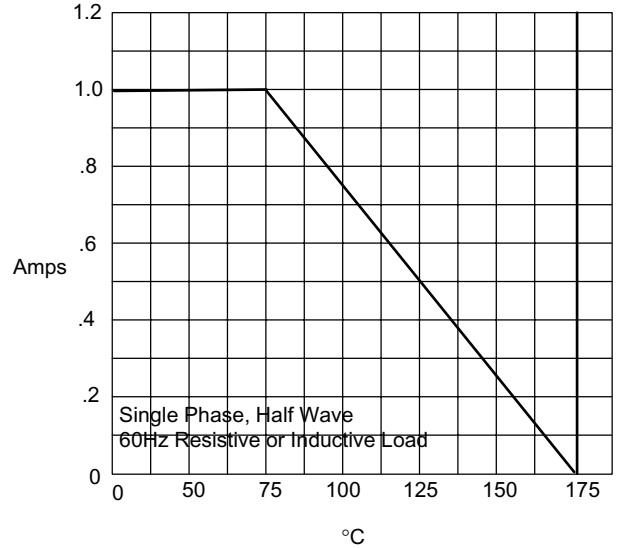
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Figure 1
Typical Forward Characteristics



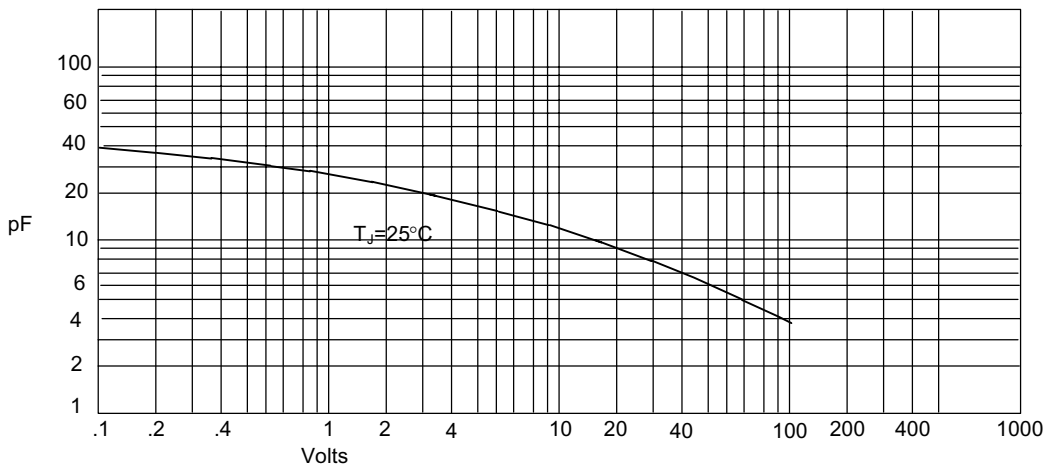
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



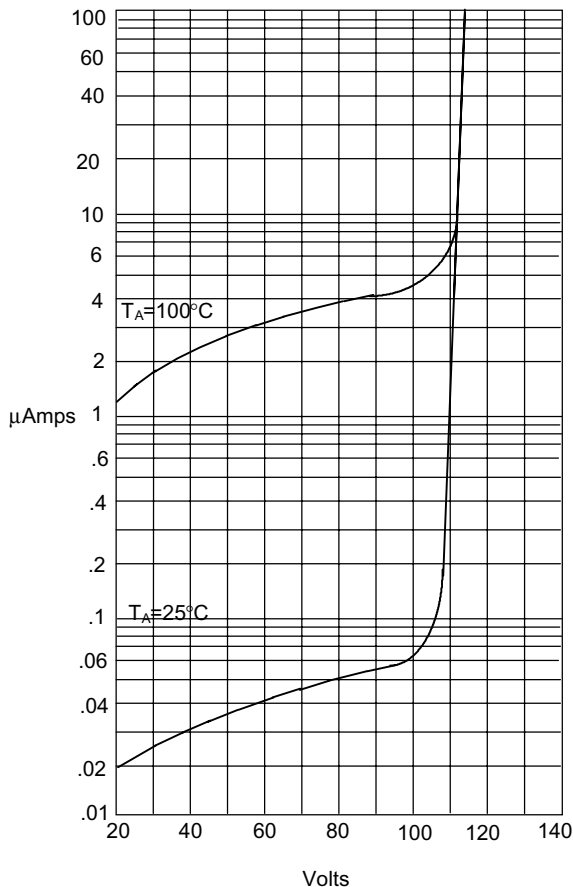
Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 3
Junction Capacitance



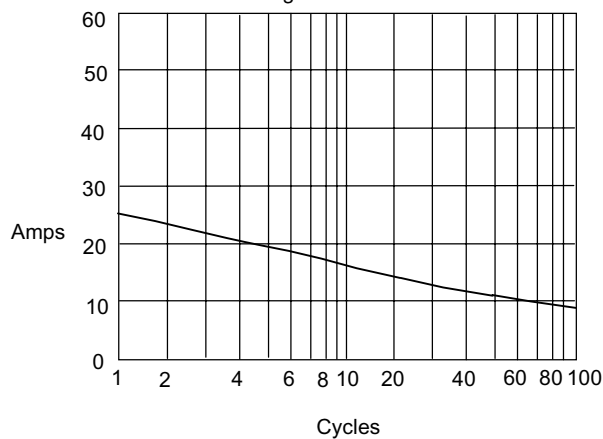
Junction Capacitance - pF versus
Reverse Voltage - Volts

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

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