



Micro Commercial Components



Micro Commercial Components
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S5AL
THRU
S5ML

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
For Surface Mount Applications
High Current Capability
Extremely Low Thermal Resistance
High Temp Soldering:260°C for 10Seconds At Terminals
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: -55°C to +150°C
Storage Temperature: -55°C to +150°C
Thermal Resistance: 10°C/W Junction to Lead
18°C/W Junction to Case
50°C/W Junction to Ambient

Table with 5 columns: MCC Part Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include S5AL, S5BL, S5DL, S5GL, S5JL, S5KL, S5ML.

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, Typical Junction Capacitance.

*Pulse test: Pulse width 200 µsec, Duty cycle 2%
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

5 Amp
Silicon Rectifier
50 to 1000 Volts

DO-214AB (SMC) (LEAD FRAME)

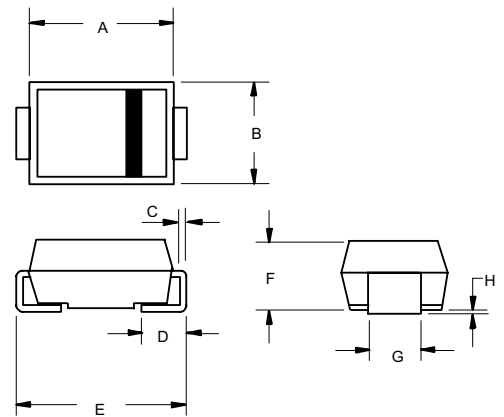
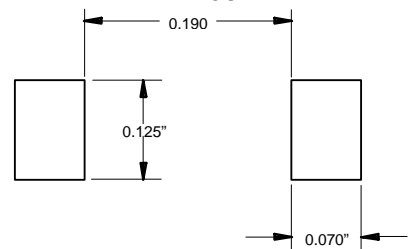


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows include dimensions A through H.

SUGGESTED SOLDER PAD LAYOUT

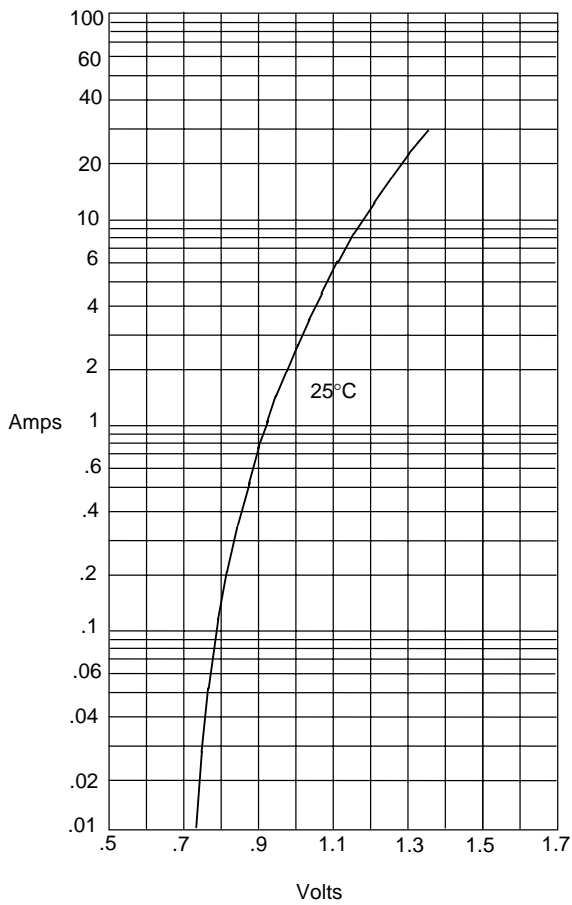


S5AL thru S5ML



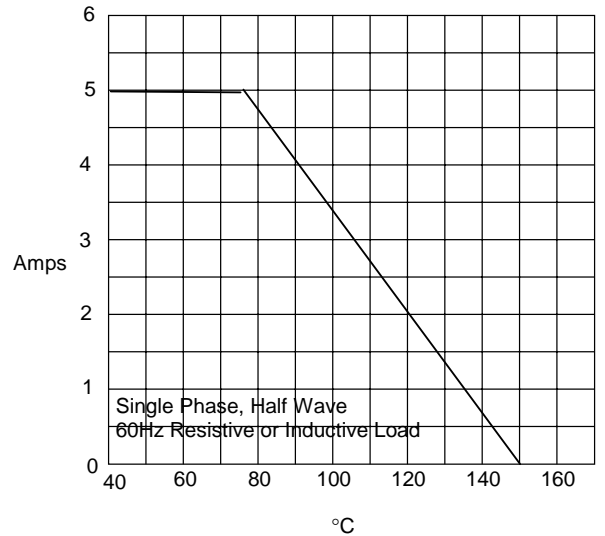
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Figure 1
Typical Forward Characteristics



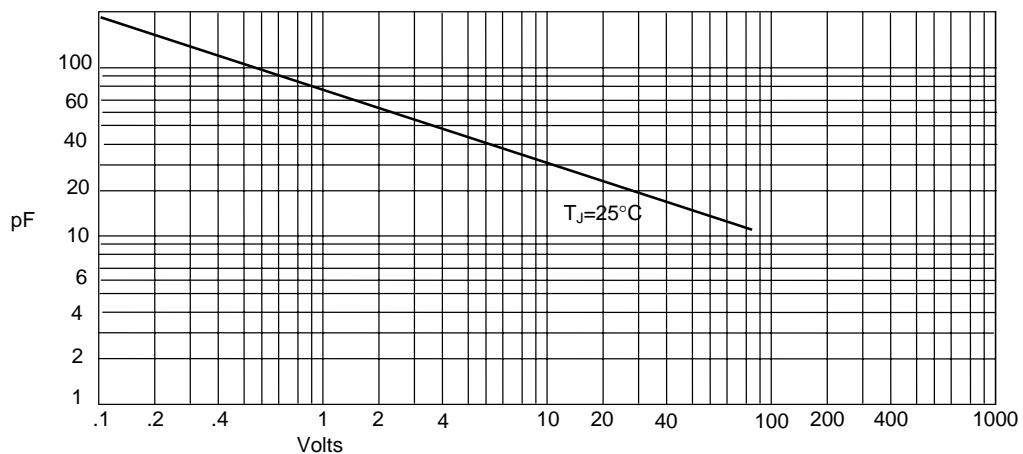
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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