



Micro Commercial Components



Micro Commercial Components  
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# SK4200L

## Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- For Surface Mount Applications
- Easy Pick And Place
- High Temp Soldering: 260°C for 10 Seconds At Terminals

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 11 °C/W Junction To Lead

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|----------------------------------------|---------------------|-----------------------------|
| SK4200L            | SK4200         | 200V                                   | 140V                | 200V                        |

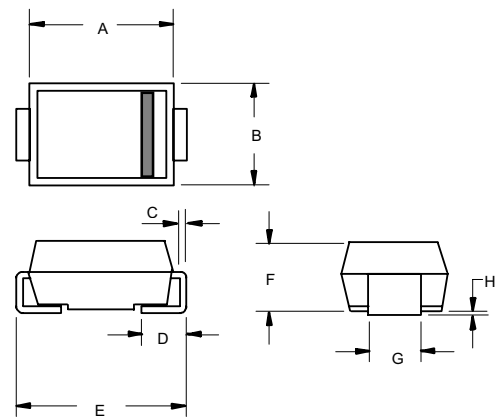
## Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |             |       |                                                         |
|---------------------------------------------------------|-------------|-------|---------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 4.0A  | $T_L = 70^\circ\text{C}$                                |
| Peak Forward Surge Current                              | $I_{FSM}$   | 100A  | 8.3ms, half sine                                        |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | .86V  | $I_{FM} = 4.0\text{A}; T_J = 25^\circ\text{C}$          |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 0.5mA | $T_J = 25^\circ\text{C}$                                |
| Maximum Reverse Recovery Time                           | $T_{rr}$    | 35ns  | $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$ |

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

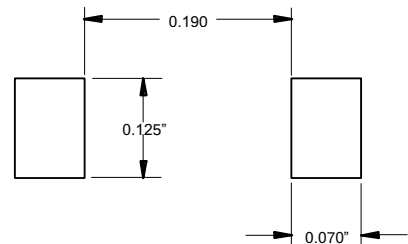
## 4 Amp Schottky Rectifier 200 Volts

### DO-214AB (SMC) (LEAD FRAME)



| DIMENSIONS |        |      |       |       |      |
|------------|--------|------|-------|-------|------|
| DIM        | INCHES |      | MM    |       | NOTE |
|            | MIN    | MAX  | MIN   | MAX   |      |
| A          | .260   | .280 | 6.60  | 7.11  |      |
| B          | .220   | .245 | 5.59  | 6.22  |      |
| C          | .006   | .012 | 0.15  | 0.31  |      |
| D          | .030   | .060 | 0.76  | 1.52  |      |
| E          | .305   | .320 | 7.75  | 8.13  |      |
| F          | .079   | .103 | 2.00  | 2.62  |      |
| G          | .108   | .128 | 2.75  | 3.25  |      |
| H          | .002   | .008 | 0.050 | 0.203 |      |

### SUGGESTED SOLDER PAD LAYOUT



[www.mccsemi.com](http://www.mccsemi.com)

## SK4200L

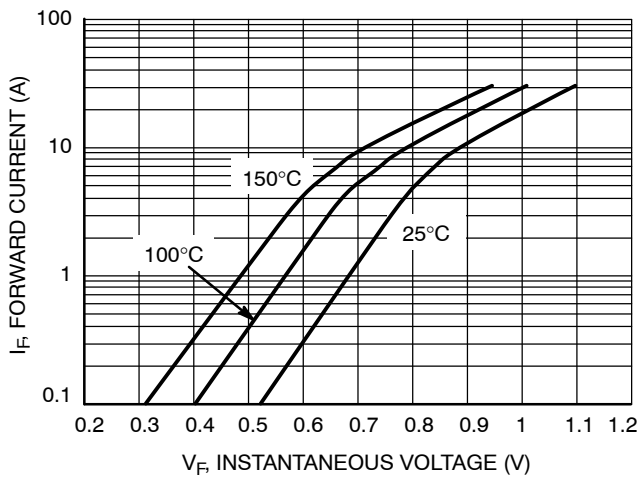


Figure 1. Typical Forward Voltage

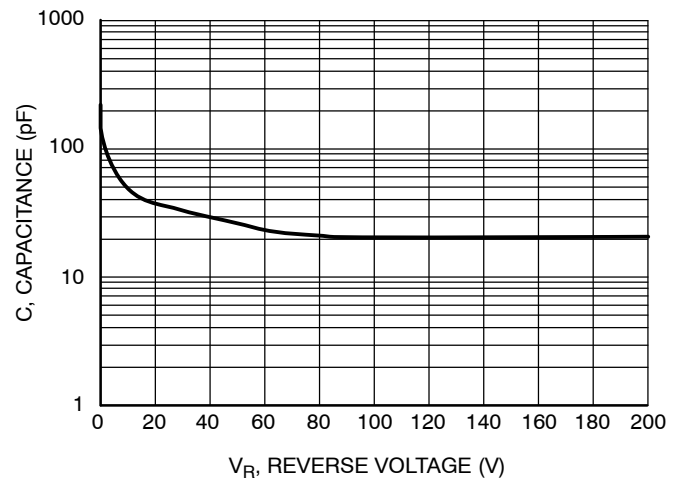


Figure 2. Typical Capacitance

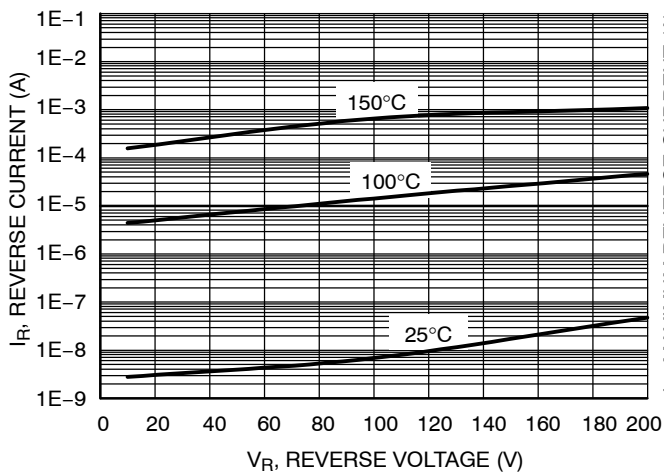


Figure 3. Typical Reverse Current

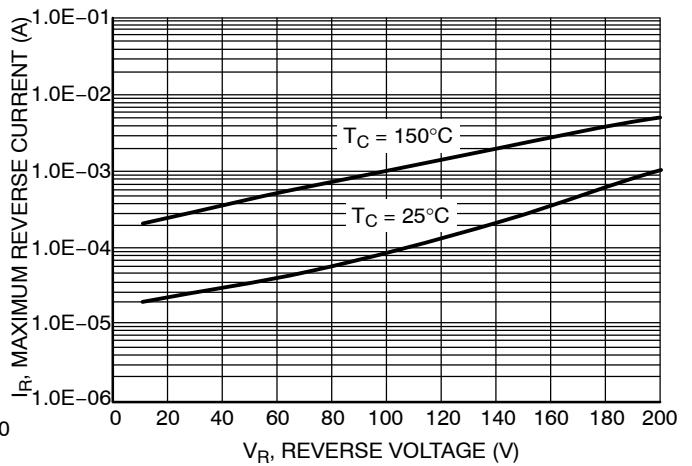
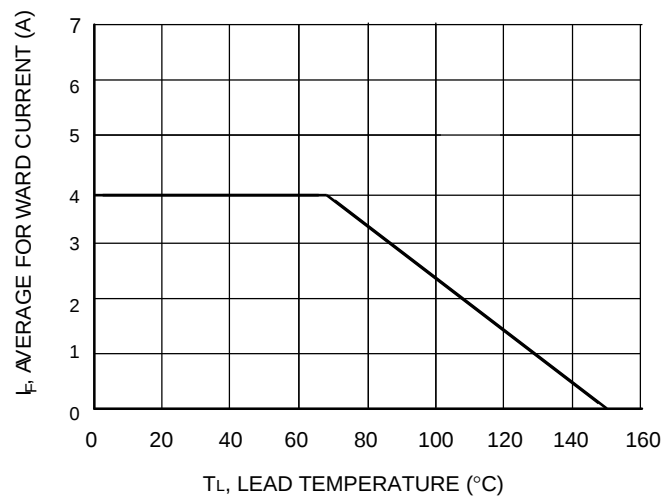


Figure 4. Maximum Reverse Current

## SK4200L



**Figure 5. Derating Curve**

## 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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