

## Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- For Surface Mount Application
- Easy Pick And Place

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 15°C/W Junction to Lead

| MCC Part 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

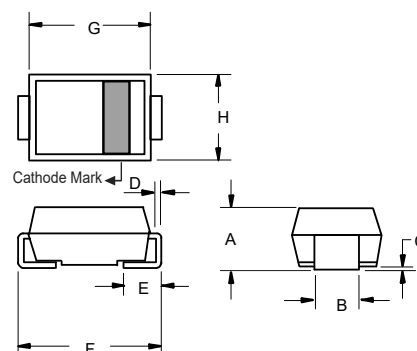
|   |             |        |   |
|---|-------------|--------|---|
| Average Forward Current                                 | $I_{F(AV)}$ | 4.0A   | $T_L=100^\circ\text{C}$                     |
| Peak Forward Surge Current                              | $I_{FSM}$   | 100A   | 8.3ms, Half Sine                            |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 0.86V  | $I_{FM}=4.0A$ ;<br>$T_J=25^\circ\text{C}$   |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 0.01mA | $T_J=25^\circ\text{C}$                      |
| Maximum Reverse Recovery Time                           | $t_{rr}$    | 35ns   | $I_F=0.5A$ , $I_R=1.0A$ ,<br>$I_{rr}=0.25A$ |

Note:

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a.

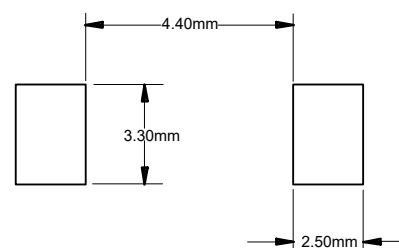
# 4 Amp Schottky Rectifier 200 Volts

## SMC (DO-214AB)



| DIM | INCHES |       | MM    |       | NOTE |
|-----|--------|-------|-------|-------|------|
|     | MIN    | MAX   | MIN   | MAX   |      |
| A   | 0.079  | 0.103 | 2.00  | 2.62  |      |
| B   | 0.108  | 0.128 | 2.75  | 3.25  |      |
| C   | 0.002  | 0.008 | 0.051 | 0.203 |      |
| D   | 0.006  | 0.012 | 0.152 | 0.305 |      |
| E   | 0.030  | 0.060 | 0.76  | 1.52  |      |
| F   | 0.305  | 0.320 | 7.75  | 8.13  |      |
| G   | 0.260  | 0.280 | 6.60  | 7.11  |      |
| H   | 0.220  | 0.245 | 5.59  | 6.22  |      |

### Suggested Solder Pad Layout



**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

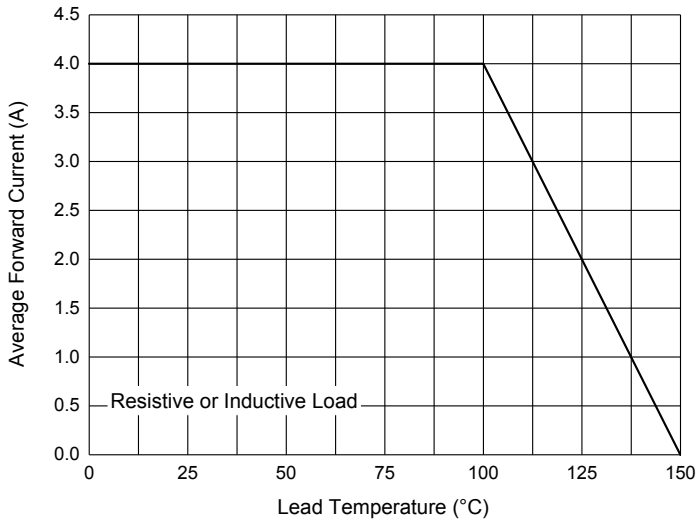


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

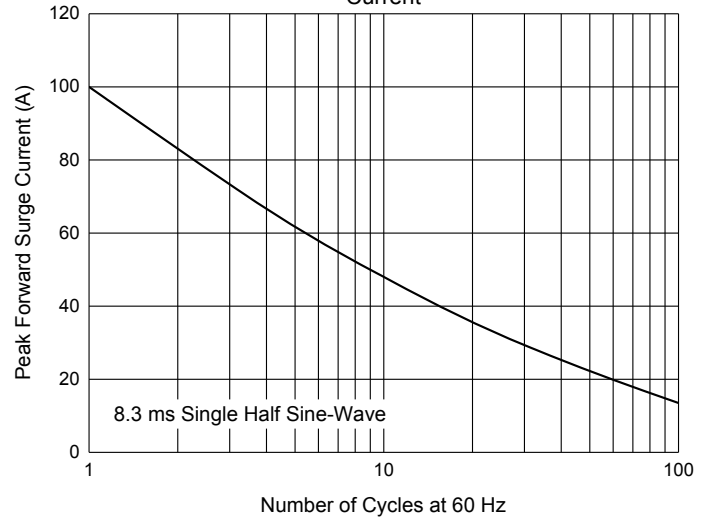


Fig. 3 - Typical Instantaneous Forward Characteristics

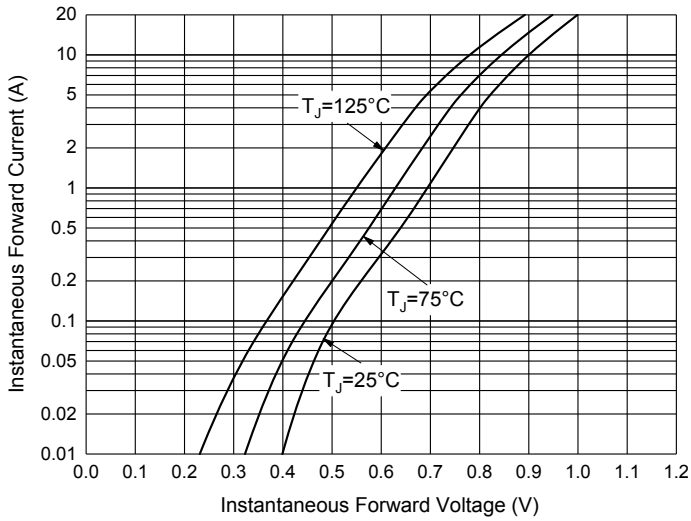
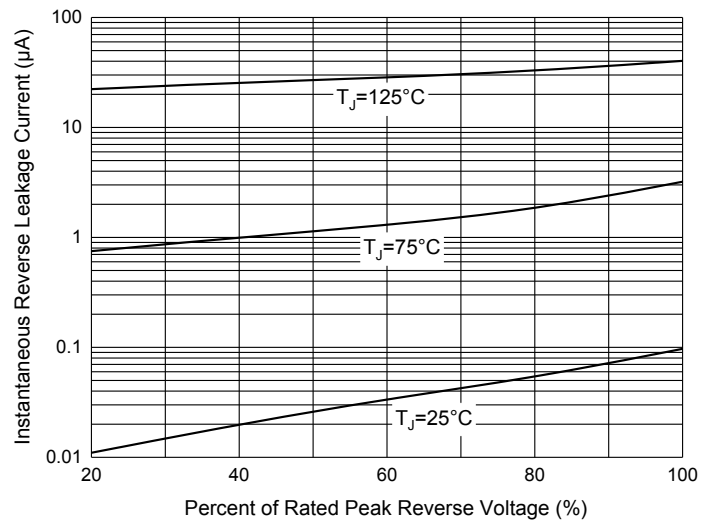


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

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

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