

**Features**

- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- High Surge Current Capability
- Low Leakage
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 45°C/W Junction to Ambient
- Thermal Resistance: 12°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| S8AL            | S8AL           | 50V                                    | 35V                 | 50V                         |
| S8BL            | S8BL           | 100V                                   | 70V                 | 100V                        |
| S8DL            | S8DL           | 200V                                   | 140V                | 200V                        |
| S8GL            | S8GL           | 400V                                   | 280V                | 400V                        |
| S8JL            | S8JL           | 600V                                   | 420V                | 600V                        |
| S8KL            | S8KL           | 800V                                   | 560V                | 800V                        |
| S8ML            | S8ML           | 1000V                                  | 700V                | 1000V                       |

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

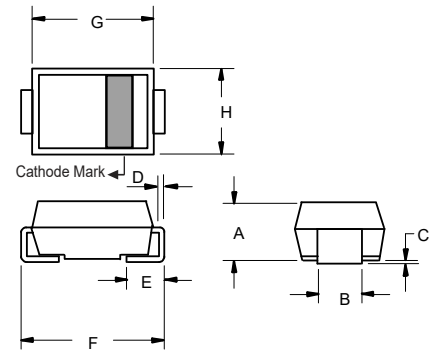
|   |             |                      |   |
|---|-------------|----------------------|---|
| Average Forward Current                                 | $I_{F(AV)}$ | 8.0A                 | $T_L=100^\circ\text{C}$                             |
| Peak Forward Surge Current                              | $I_{FSM}$   | 200A                 | 8.3ms, Half Sine                                    |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.05V<br>0.94V(Typ.) | $I_{FM}=8.0A$ ;<br>$T_J=25^\circ\text{C}^*$         |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 5µA<br>100µA         | $T_J=25^\circ\text{C}$ ;<br>$T_J=100^\circ\text{C}$ |
| Typical Junction Capacitance                            | $C_J$       | 150pF                | Measured at<br>1.0MHz, $V_R=4.0V$                   |

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

\*Pulse Test: Pulse Width 300 µsec, Duty Cycle 1%

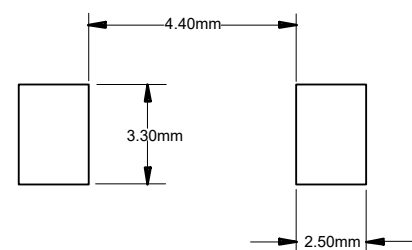
**8 Amp Glass Passivated Rectifier  
50 to 1000 Volts**

**SMC (DO-214AB)**



| DIM | DIMENSIONS |       |       |       | NOTE |
|-----|------------|-------|-------|-------|------|
|     | INCHES     |       | MM    |       |      |
|     | 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

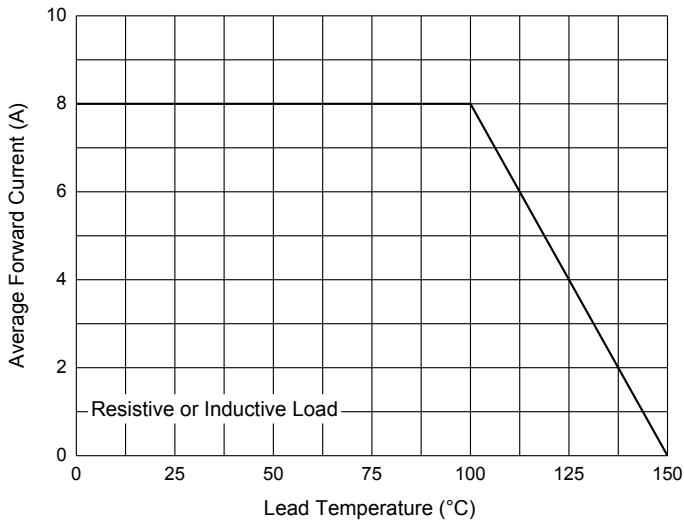


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

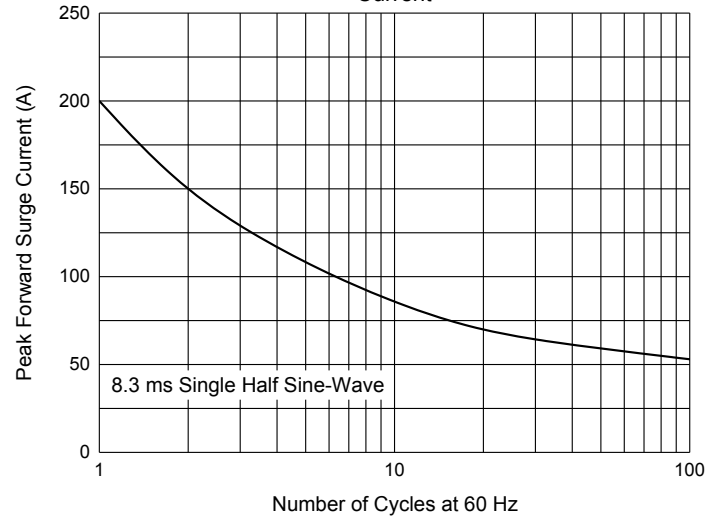


Fig. 3 - Typical Instantaneous Forward Characteristics

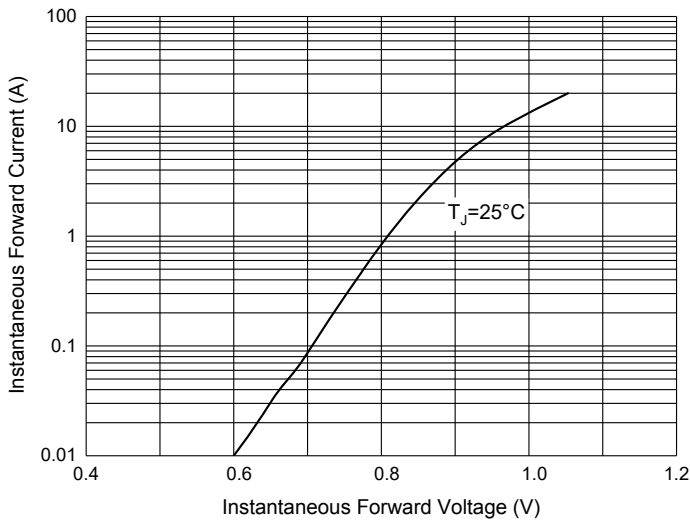
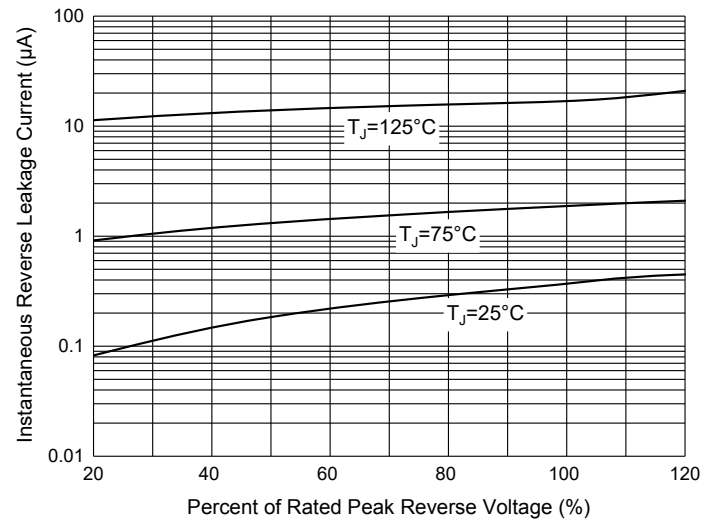


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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