



Micro Commercial Components



Micro Commercial Components  
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## Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Surge Current Capability
- Low Leakage
- Glass Passivated Chip

## Maximum Ratings

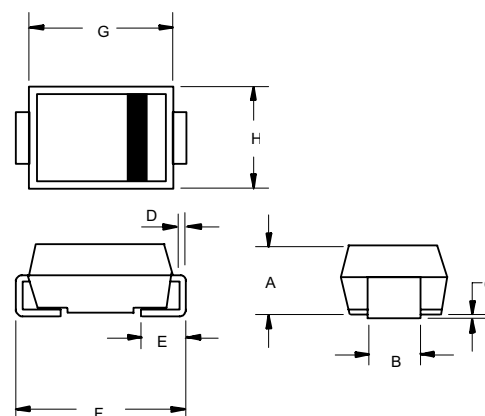
- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|----------------------------------------|---------------------|-----------------------------|
| SMLJ60S05          | 60S05          | 50V                                    | 35V                 | 50V                         |
| SMLJ60S1           | 60S1           | 100V                                   | 70V                 | 100V                        |
| SMLJ60S2           | 60S2           | 200V                                   | 140V                | 200V                        |
| SMLJ60S4           | 60S4           | 400V                                   | 280V                | 400V                        |
| SMLJ60S6           | 60S6           | 600V                                   | 420V                | 600V                        |
| SMLJ60S8           | 60S8           | 800V                                   | 560V                | 800V                        |
| SMLJ60S10          | 60S10          | 1000V                                  | 700V                | 1000V                       |

## SMLJ60S05 THRU SMLJ60S10

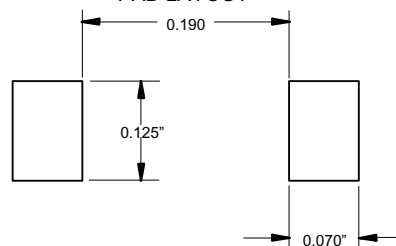
## 6 Amp Surface Mount Glass Passivated Rectifier 50 - 1000 Volts

### SMC (DO-214AB)



| DIM | INCHES |      | MM    |       | NOTE |
|-----|--------|------|-------|-------|------|
|     | MIN    | MAX  | MIN   | MAX   |      |
| A   | .079   | .103 | 2.00  | 2.62  |      |
| B   | .108   | .128 | 2.75  | 3.25  |      |
| C   | .002   | .008 | 0.051 | 0.203 |      |
| D   | .006   | .012 | 0.152 | 0.305 |      |
| E   | .030   | .060 | 0.76  | 1.52  |      |
| F   | .305   | .320 | 7.75  | 8.13  |      |
| G   | .260   | .280 | 6.60  | 7.11  |      |
| H   | .220   | .245 | 5.59  | 6.22  |      |

### SUGGESTED SOLDER PAD LAYOUT



## Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |             |                                      |                                                       |
|---------------------------------------------------------|-------------|--------------------------------------|-------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 6.0A                                 | $T_A = 100^\circ\text{C}$                             |
| Peak Forward Surge Current                              | $I_{FSM}$   | 200A                                 | 8.3ms, half sine                                      |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.0V                                 | $I_{FM} = 6.0\text{A};$<br>$T_J = 25^\circ\text{C}^*$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 5 $\mu\text{A}$<br>100 $\mu\text{A}$ | $T_J = 25^\circ\text{C}$<br>$T_J = 100^\circ\text{C}$ |
| Typical Junction Capacitance                            | $C_J$       | 150pF                                | Measured at<br>1.0MHz, $V_R = 4.0\text{V}$            |

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

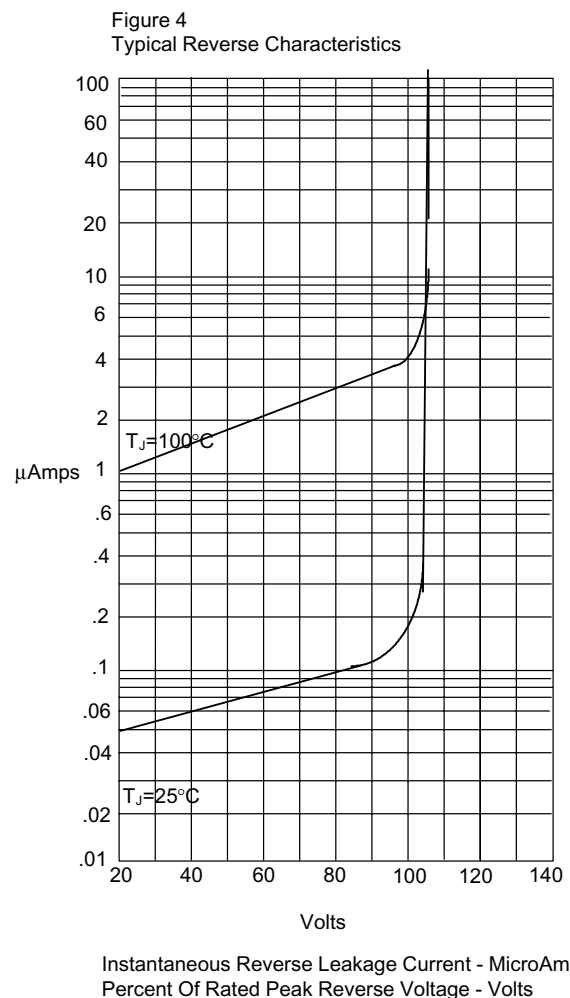
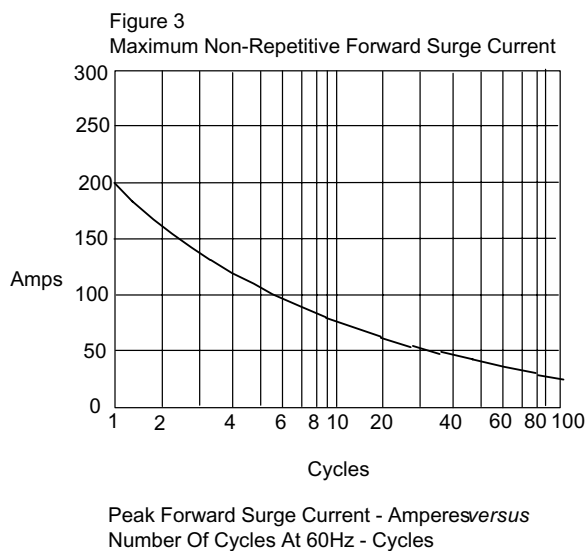
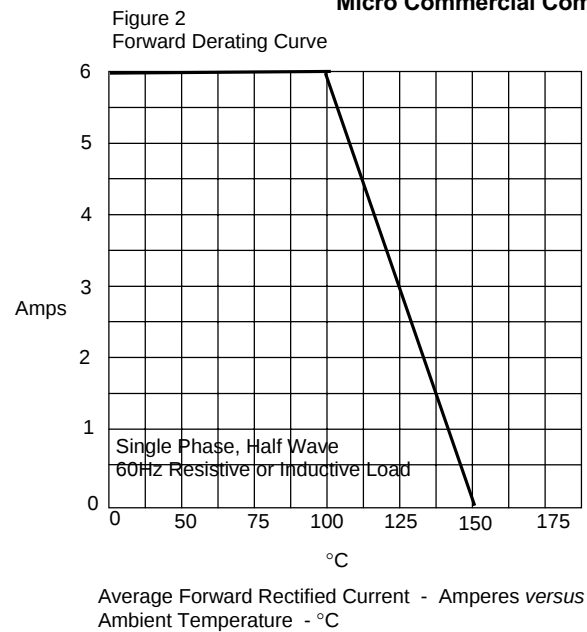
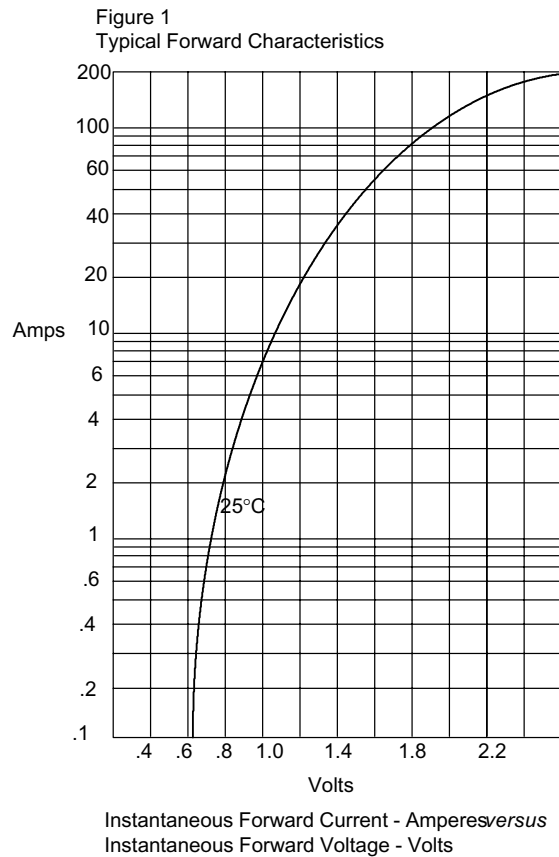
\*Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 1%

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# SMLJ60S05 THRU SMLJ60S10

**M.C.C.**

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TM

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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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