



Micro Commercial Components



Micro Commercial Components  
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# SL54B THRU SL510B

## Features

- 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
- High Surge forward current capability
- Halogen free available upon request by adding suffix "-HF"

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 16°C/W Junction To Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|----------------------------------------|---------------------|-----------------------------|
| SL54B           | SL54           | 40V                                    | 28V                 | 40V                         |
| SL56B           | SL56           | 60V                                    | 42V                 | 60V                         |
| SL510B          | SL510          | 100V                                   | 70V                 | 100V                        |

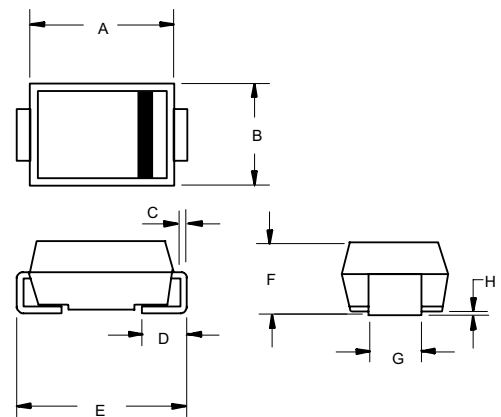
## Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |             |                                         |                                                       |
|---------------------------------------------------------|-------------|-----------------------------------------|-------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 5.0A                                    | $T_L = 95^\circ\text{C}$                              |
| Peak Forward Surge Current                              | $I_{FSM}$   | 100A                                    | 8.3ms, half sine                                      |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | SL54B .45V<br>SL56B .50V<br>SL510B .70V | $I_{FM} = 5.0A$ ;<br>$T_a = 25^\circ\text{C}$         |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 0.5mA<br>10mA                           | $T_a = 25^\circ\text{C}$<br>$T_a = 100^\circ\text{C}$ |

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

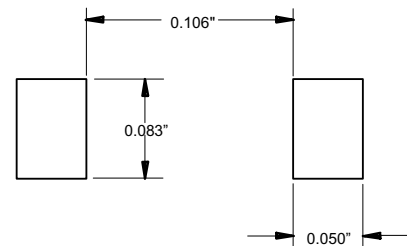
## 5 Amp Low VF Schottky Rectifier 40~100 Volts

### DO-214AA (SMB) (LEAD FRAME)

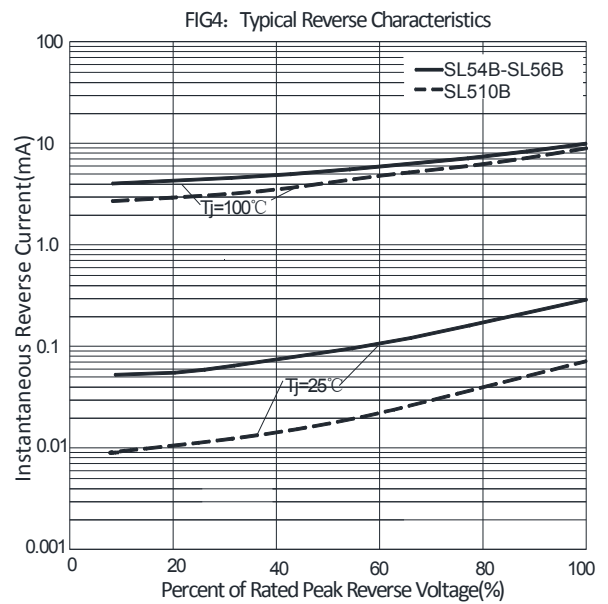
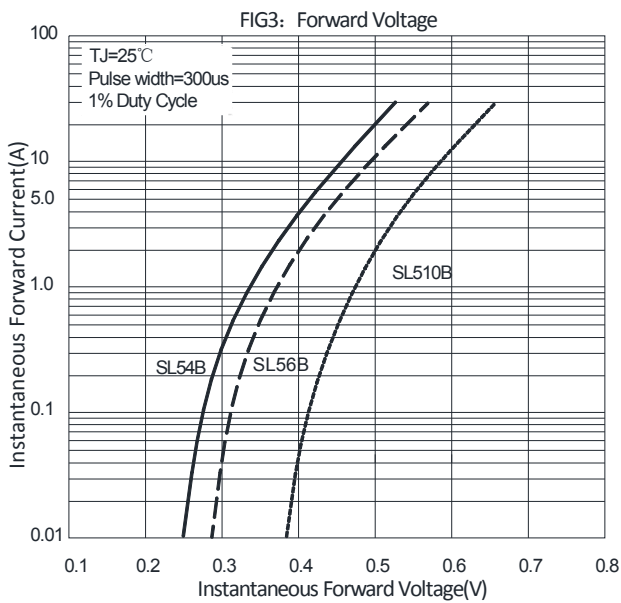
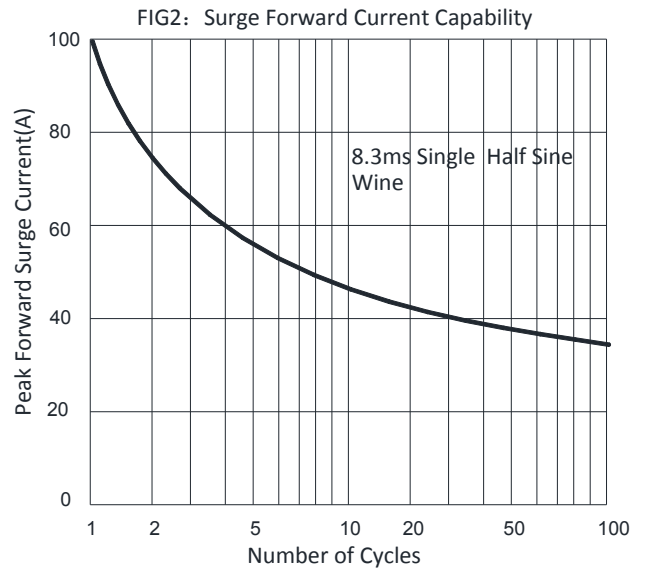
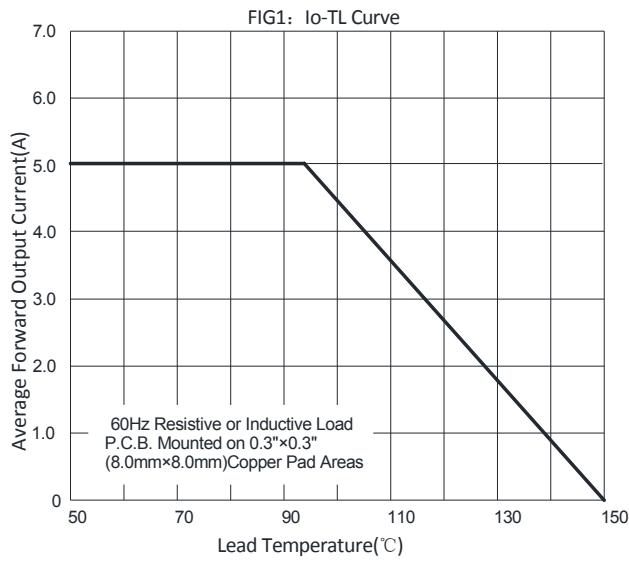


| DIMENSIONS |        |      |      |       |      |
|------------|--------|------|------|-------|------|
| DIM        | INCHES |      | MM   |       | NOTE |
|            | MIN    | MAX  | MIN  | MAX   |      |
| A          | .160   | .185 | 4.06 | 4.70  |      |
| B          | .130   | .155 | 3.30 | 3.94  |      |
| C          | .006   | .012 | 0.15 | 0.31  |      |
| D          | .030   | .060 | 0.76 | 1.52  |      |
| E          | .200   | .220 | 5.08 | 5.59  |      |
| F          | .079   | .096 | 2.00 | 2.44  |      |
| G          | .075   | .087 | 1.91 | 2.21  |      |
| H          | .002   | .008 | 0.05 | 0.203 |      |

### SUGGESTED SOLDER PAD LAYOUT



## Characteristics(Typical)





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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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