

# SLIC Protection

## ITU-T 4 kV Solution, Negative Voltage Tracking

Bourns<sup>®</sup> PortNote<sup>®</sup> solutions provide protection recommendations for typical port threats.

### Solution Products



TBU-PL085-200-WH



MOV-10D391K

### Objective

The SLIC (Subscriber Line Interface Circuit) provides all the BORSCHT functions such as battery, ringing and supervision between the codec and telephone hand set. This PortNote<sup>®</sup> solution discusses negative battery voltage solutions against surge and power contact threats.

### Solution

- 1 TBU<sup>®</sup> High-Speed Protector:  
TBU-PL085-200-WH
- 2 MOV Devices: MOV-10D391K

### Compliance

- ITU-T Basic K.20, K.21, K.45.
- 230 V<sub>rms</sub>, 23 A, 900 seconds withstand.
- 600 V<sub>rms</sub>, 1 A, 0.2 seconds withstand.
- Increased surge withstand level to 10/700 μs 4 kV without a primary protector..

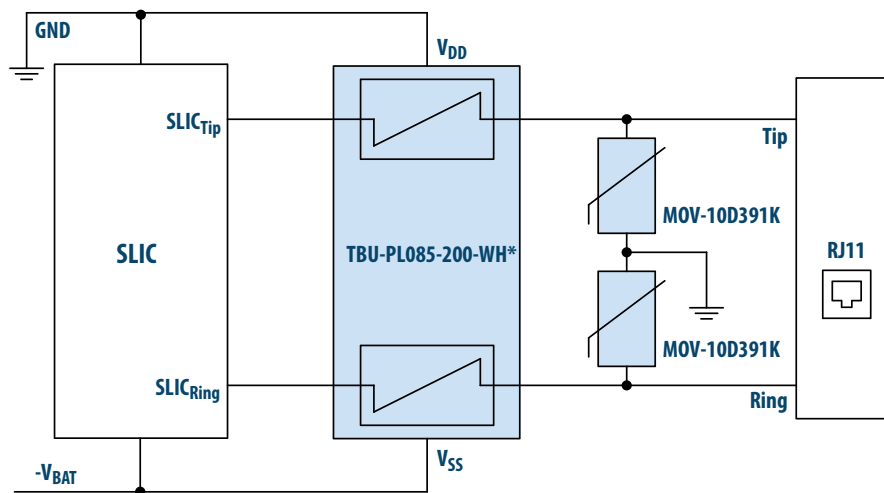
### Alternate Recommendations

Other PortNote<sup>®</sup> Solutions:

- SLIC Protection: ITU-T Enhanced 6kV Solution, Negative Voltage Tracking
- SLIC Protection: GR-1089-CORE Intra-building, Negative Voltage Tracking

### Benefit

This solution provides a high level of protection in a small PCB area.



The schematic above illustrates the application protection and does not constitute the complete circuit design. Customers should verify actual device performance in their specific applications.

\*Note: The VE950 series (e.g. Le9500, Le9520, Le9530, Le9540) require a 200 mA I<sub>trigger</sub>. TBU<sup>®</sup> High-Speed Protector for normal operation. All other SLICs may use 100 mA I<sub>trigger</sub>. TBU<sup>®</sup> HSP devices.

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