

# SLIC Protection for RJ11 Ports in IP-PBX

## ITU-T Solution

### Solution Products



TBU-PL060-200-WH



TISP4500H3BJR

### Objective

The SLIC (Subscriber Line Interface Circuit) provides all of the BORSCHT functions such as battery, ringing and supervision between the codec and telephone handset. This PortNote® Solution discusses negative battery voltage solutions against surge and power contact threats.

### Solution

- 1 TBU® High-Speed Protector:  
TBU-PL060-200-WH
- 2 Thyristor Surge Protectors:  
TISP4500H3BJR

### Compliance

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

### Alternate Recommendations

Other PortNote® Solutions:

- Dual Supply Voltage SLIC Protection - ITU-T Solution
- Negative Battery Voltage SLIC Protection - GR-1089-CORE Intra-building Solution
- SLIC Protection - GR-1089-CORE Intra-building Solution

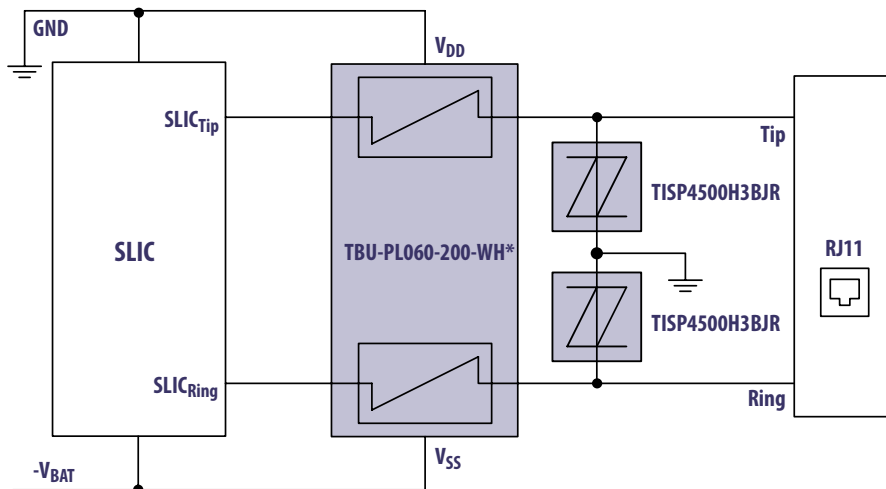
### Benefit

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

### Design Kit



PN-DESIGNKIT-49



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  $I_{trigger}$ . TBU® High-Speed Protector (HSP) for normal operation. All other SLICs may use 100 mA  $I_{trigger}$ . TBU® HSP devices.