

SLIC Protection

ITU-T Enhanced 6 kV Solution, Negative Voltage Tracking

Bourns® PortNote® solutions provide protection recommendations for typical port threats.

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 Enhanced K.20, K.21, K.45.
- 230 V_{rms}, 23 A, 900 seconds withstand.
 - Increased surge withstand level to 10/700us 6 kV without a primary protector.

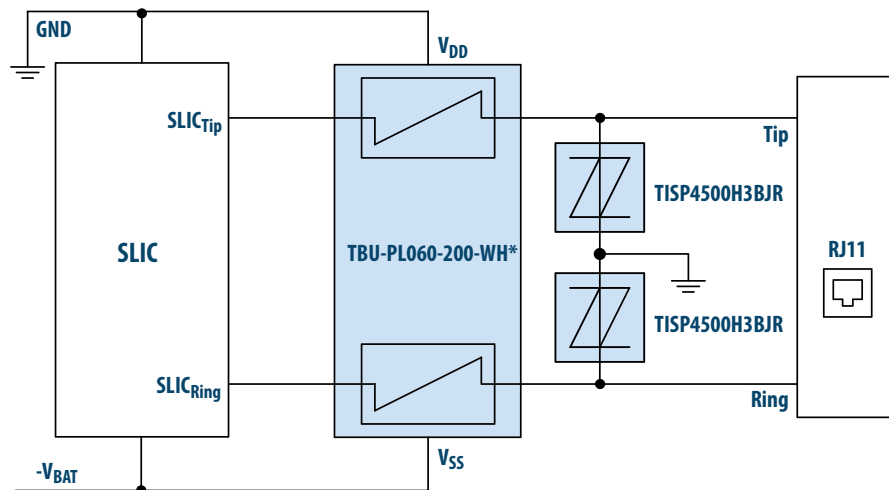
Alternate Recommendations

Other PortNote® Solutions:

- SLIC Protection: GR-1089-CORE Intra-building Solution, Negative Voltage tracking
- SLIC Protection: ITU-T Basic 4 kV Solution, 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_{trigger} TBU® High-Speed Protector (HSP) for normal operation. All other SLICs may use 100 mA I_{trigger} TBU® HSP devices.

Request Sample



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