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

- 230 V_{rup} 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.

To order samples, click on the “Request Sample” button.

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.