

PORTNOTE®

Negative Battery Voltage SLIC Protection

ITU-T Solution

Solution Products



TBU-PL085-200-WH



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* solution discusses negative battery voltage solutions against surge and power contact threats.

Solution

1 TBU* High-Speed Protector: TBU-PL085-200-WH 2 MOV Devices: MOV-10D391K

Compliance

ITU-T Basic K.20, K.21, K.45.

- \bullet 230 V_{rms} , 23 A, 900 seconds with stand.
- \bullet 600 V_{rms} , 1 A, 0.2 seconds withstand.
- Increased surge with stand to 4 kV 10/700 μs without a primary protector.

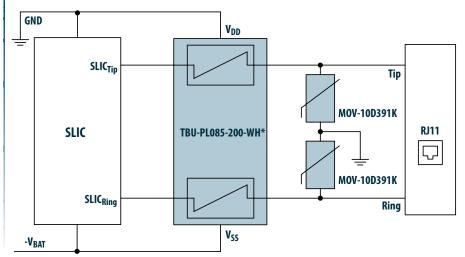
Alternate Recommendations

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.



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 $I_{\rm trigger}$ TBU High-Speed Protector for normal operation. All other SLICs may use 100 mA $I_{\rm trigger}$ TBU* HSP devices.

REV 10/12

Design Kit



PN-DESIGNKIT-42

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

For more information, go to:

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