Negative Battery Voltage SLIC Protection

GR-1089-CORE Intra-building Solution

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

Solution
1 TBU® High-Speed Protector:
TBU-PL060-200-WH
2 MOV Devices: MOV-10D201K

Compliance
GR-1089-CORE intra-building, issue 5, port type 4.
- 120 \(V_{\text{rms}}\), 25 A, 900 seconds withstand.
- 130 \(V_{\text{rms}}\) maximum AC withstand.
- Increased surge level to 5 kV, 500 A 2/10 \(\mu\)s.

Alternate Recommendations
Other PortNote® Solutions:
- SLIC Protection - GR-1089-CORE Intra-building Solution
- Negative Battery Voltage SLIC Protection - ITU-T Solution
- Dual Supply Voltage SLIC Protection - ITU-T 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.