



Featured Products Bulletin

CIRCUIT PROTECTION PRODUCTS



Bourns Releases Newest Circuit Protection Technology in Twenty Years ***The Transient Blocking Unit (TBU™) Electronic Current Limiter***

Riverside, California - December 19, 2008 - Bourns, Inc., a leading manufacturer and supplier of electronic components, today announced the availability of a breakthrough line of Transient Blocking Unit (TBU™) circuit protection products. As the first new approach to electronics circuit protection in over twenty years, Bourns' new TBU™ technology is designed to block a transient through a current disconnecting mechanism rather than diverting or shunting the surge to ground. This blocking technology virtually eliminates latency in the circuit protection design which results in surge protection for sensitive electronic equipment within nanoseconds. Bourns' new TBU™ devices provide extremely effective, wide bandwidth circuit protection against lightning, power induction, power cross and short circuit events in a wide variety of telecom applications: voice circuits, Voice over IP (VoIP), Very High Speed DSL (VDSL), Ethernet and T1/E1 applications. The TBU™ product is also used by customers in industrial, test and instrumentation, sensors, LVDS, and transportation applications.

Bourns' new TBU™ line includes four product families: The **P-G series** designed for voice protection, **P40-G** for VDSL protection, the **P-U series** for Ethernet protection and the **C series** for general electronics protection. The P-G series meets very high surge requirements and prevents arcing and other damage to components in typical use. Offering very high bandwidth for VDSL and VDSL2 applications, the P40-G TBU™ products meet rate-reach requirements. The P-U series is designed specifically for Ethernet applications by protecting against both lightning and power cross events. All Bourns® TBU™ products are resettable for full functionality after multiple fault events and offer a high bandwidth of 3 gigahertz (GHz). While Bourns' new TBU™ line exceeds system circuit protection requirements, the products are also a cost-effective solution to reduce warranty returns. Specifically designed for overvoltage and overcurrent protection in telecommunication, industrial and data communications systems, TBU™ technology was first announced by Fultec Semiconductor from which Bourns acquired its TBU™ business in October 2008.

Please feel free to contact us regarding the new TBU™ product. Samples are available upon request.

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TBU™ P500-G and P850-G Protectors

Features

- Formerly **FulTec** brand
- Extremely high speed performance
- Blocks high voltages and currents
- Two TBU™ protectors in one small package
- Simple, superior circuit protection
- Minimal PCB area
- RoHS compliant*, UL Recognized 

Applications

- POTS linecards
- VoIP equipment
- Voice and data combo linecards
- ONU, ONT
- Gateways
- Cable and DSL modems



TBU™ P40-G Protectors

Features

- Formerly **FulTec** brand
- Extremely high speed performance
- Low impedance
- Two TBU™ protectors in one small package
- Very high bandwidth, GHz compatible
- Simple, superior circuit protection
- RoHS compliant*, UL Recognized 


Applications

- xDSL (ADSL, VDSL, VDSL2)
- High Data Rate Interface IC protection (LVDS, HDMI, etc.)
- Industrial sensors and controls
- General electronics



TBU™ P650-U and P850-U Protectors

Features

- Formerly **FulTec** brand
- Extremely high speed performance
- Blocks high voltages and currents
- Low insertion loss
- Two TBU™ protectors in one small package
- Very high bandwidth; GHz compatible
- RoHS compliant*, UL Recognized 


Applications

- Mb Ethernet port protection
- Gb Ethernet port protection
- Isolated and floating interfaces



TBU™ C650 and C850 Protectors

Features

- Formerly **FulTec** brand
- Extremely high speed performance
- Blocks high voltages and currents
- Very high bandwidth; GHz compatible
- Small package, minimal PCB area
- Simple, superior circuit protection
- RoHS compliant*, UL Recognized 

Applications

- Combo voice / xDSL linecards
- Voice linecards
- MDF, primary protection modules
- Process control equipment
- Test and measurement equipment
- General electronics

