

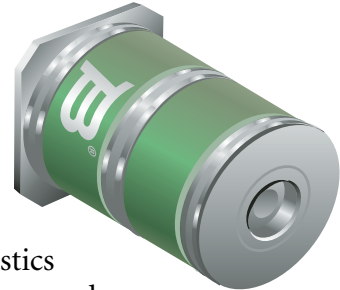


Featured Products Bulletin

GAS DISCHARGE TUBES

Bourns® GDT Product Line Releases 2038 Series Symmetrical Gas Discharge Tube

Riverside, California - December 29, 2008 - Bourns now offers a symmetrical 5 mm surface mount (SM) 3-electrode GDT surge protection device in an extended voltage range. The industry-leading quality and features of the Bourns® miniature-TRIGARD™ series GDT continue in the 2038 symmetrical version. The [2038 series](#) is ideal for board level protection of high bandwidth applications such as xDSL, cable broadband and high speed Ethernet due to its symmetrical turn on characteristics as well as high energy-handling capability, long and stable life performance and low capacitance of less than 1 pF. The 2038 series breakdown voltages are nearly equal line to line as well as line to ground. Typical 3-electrode GDTs have line-line breakdown voltages 1.8 - 2 times higher than the line to ground breakdown voltage. These units are available in voltages from 150 to 1100 V.



Bourns® Gas Discharge Tubes (GDTs) are designed to prevent damage from transient disturbances by acting as a “crowbar” in creating a short-to-ground circuit during conduction. When an electrical surge exceeds the defined breakdown voltage level of the GDT, the device becomes ionized and rapid conduction takes place. When the surge passes and system voltage returns to normal levels, the GDT returns to its high-impedance (off) state. RoHS compliant* versions are available.

Please contact Bourns customer service at (951) 781-5500 if further information is required.

2038 Series Features

- Balanced Mini-TRIGARD™ (5 mm diameter, 7.3 mm length)
- Ideal for board level protection of broadband circuits
- Symmetrical breakdown voltage (L-L, L-G)
- Leadless, surface mount for economical assembly
- High surge current rating, low insertion loss
- Stable breakdown throughout life
- RoHS compliant* versions available

2038 Series Applications

- Board level protection of high-bandwidth applications such as:
 - xDSL
 - Cable broadband
 - High speed Ethernet

*RoHS Directive 2002/95/EC Jan. 27, 2003 including Annex.