Bourns Releases New High Energy GDTs

Model GDT212E, GDT216E, GDT220E and GDT225E Series

Riverside, California – September 22, 2023 – Bourns is pleased to announce the release of four new high energy GDT series – the Model GDT212E, GDT216E, GDT220E and GDT225E.

These new high energy models are tested per ITU-T K.12 method and are UL recognized GDT devices. They offer a high surge capability rated on an 8/20 μs waveform with a broad range of DC breakdown voltages as shown in the table below.

<table>
<thead>
<tr>
<th>Series</th>
<th>DC Breakdown Voltage</th>
<th>Voltage Types</th>
<th>Maximum Impulse Discharge Current (8/20 μs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDT212E</td>
<td>230 V to 800 V</td>
<td>10</td>
<td>I_{max} (1 Time) = 40 kA, I_{n} (10 Times) = 30 kA</td>
</tr>
<tr>
<td>GDT216E</td>
<td>500 V to 800 V</td>
<td>3</td>
<td>I_{max} (1 Time) = 40 kA, I_{n} (10 Times) = 20 kA</td>
</tr>
<tr>
<td>GDT220E</td>
<td>150 V to 1000 V</td>
<td>11</td>
<td>I_{max} (1 Time) = 60 kA, I_{n} (10 Times) = 40 kA</td>
</tr>
<tr>
<td>GDT225E</td>
<td>500 V to 800 V</td>
<td>3</td>
<td>I_{max} (1 Time) = 80 kA, I_{n} (10 Times) = 60 kA</td>
</tr>
</tbody>
</table>

The new GDT2xxE Series feature an innovative low profile, providing a volume and space-saving solution for high density and space-restricted PCB applications. This device is available in a variety of lead shapes to fit various configuration requirements.


**Features**
- Fast response time
- Wide temperature range
- High surge current rating
- Low capacitance and insertion loss
- Stable performance throughout life
- Small surface mount package
- RoHS compliant*

**Applications**
- Surge Protective Devices (SPDs)
- Power systems
- Industrial equipment