MINIBRIDGE®
27.5 AMPERES
THREE-PHASE FULL-WAVE BRIDGES
HEAT SINK AND CHASSIS MOUNTING

PBT SERIES

<table>
<thead>
<tr>
<th>PRV/Leg</th>
<th>50V</th>
<th>100V</th>
<th>200V</th>
<th>400V</th>
<th>600V</th>
<th>800V</th>
<th>1000V</th>
<th>1200V</th>
<th>1400V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type No.</td>
<td>PBT05</td>
<td>PBT10</td>
<td>PBT20</td>
<td>PBT40</td>
<td>PBT60</td>
<td>PBT80</td>
<td>PBT100</td>
<td>PBT120</td>
<td>PBT140</td>
</tr>
</tbody>
</table>

ELECTRICAL CHARACTERISTICS PER LEG
(at $T_A=25\,^\circ C$ Unless Otherwise Specified)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Forward Voltage Drop, $V_F=1.0,\text{V}$ @ $I_F=$</td>
<td>3 Amp</td>
</tr>
<tr>
<td>Max. DC Reverse Current @ PRV and 25 $^\circ C$, $I_R$</td>
<td>10 $\mu$A</td>
</tr>
<tr>
<td>Max. DC Reverse Current @ PRV and 100 $^\circ C$, $I_R$</td>
<td>100 $\mu$A</td>
</tr>
<tr>
<td>Max. Peak Surge Current, $I_{FSM}(8.3\text{ms})$</td>
<td>300 Amp</td>
</tr>
<tr>
<td>Storage Temperature Range, $T_{STG}$</td>
<td>-55 to +175 $^\circ C$</td>
</tr>
<tr>
<td>Thermal Resistance (Total), $R\theta_{j-c}$</td>
<td>2.3typ. $^\circ C$/W</td>
</tr>
</tbody>
</table>

EDI reserves the right to change these specifications at any time without notice.
Figure 1
CURRENT DERATING

![Graph showing current derating with Tc:case temperature (°C) on the x-axis and average forward current (AMP) on the y-axis.]

Figure 2
POWER DISSIPATION

![Graph showing power dissipation with If(AV):average forward current (AMP) on the x-axis and total average power dissipation (WATTS) on the y-axis.]

Figure 3
NON-REPETITIVE SURGE CURRENT

![Graph showing non-repetitive surge current with the number of cycles at 60 Hz on the x-axis and peak surge current (AMP) on the y-axis.]

Figure 4
SCHEMATIC

![Schematic diagram showing the configuration of the PBT series.]

PBT SERIES MECH. OUTLINE
Dielectric test voltage 1,500 volts rms, max. 50-60 Hz

![Mechanical outline diagram showing dimensions and hole placements.]

NOTE: 1. Corrosion resistant terminals designed for .250 female quick connector, wrap around or solder. 2. A thin film of silicone thermal compound is recommended between the Minibridge case and mounting surface for improved thermal conduction.

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