These low $V_F$ Schottky rectifiers, the first to be housed in the leadless medium-power DFN2020-3 (SOT1061) package, offer high forward current capability with low forward voltage. With integrated guard ring for stress protection, a footprint of only 2.0 x 2.0 mm, and a height of 0.62 mm, they offer great opportunities for miniaturization in high-performance applications.

**KEY FEATURES & BENEFITS**
- Average forward current up to 2 A
- Reverse voltage: $V_R$ between 20 to 60 V
- Low forward voltage drop for low power consumption
- AEC-Q101 qualified
- Excellent electrical performance in a 2 x 2 mm package for smaller more compact PCB designs
- Exposed heat sink
- Single & dual c.c. configuration

**KEY APPLICATIONS**
- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch Mode Power Supply (SMPS)
- Reverse polarity protection
- Battery chargers for mobile equipment
- LED backlight for mobile application
Low $V_f$ (MEGA) Schottky family in DFN2020-3 (SOT1061)

<table>
<thead>
<tr>
<th>Package</th>
<th>DFN2020-3 (SOT1061) Single</th>
<th>DFN2020-3 (SOT1061) Dual c.c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (mm)</td>
<td>2.0 x 2.0 x 0.62</td>
<td>2.0 x 2.0 x 0.62</td>
</tr>
<tr>
<td>$I_{f,\text{max}}$ (A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$V_{f,\text{max}}$ (V)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$I_{r,\text{max}}$ (mA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$V_{r,\text{max}}$ (mV)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$P_{\text{tot}}$ (W)</td>
<td>0.96</td>
<td>0.96</td>
</tr>
</tbody>
</table>

1. 20 375 1.9 Low $V_f$ PMEG2010EPA
2. 40 500 0.055 Low $I_r$ PMEG4010CPA
3. 60 540 0.1 Low $I_r$ PMEG6010CPA

- Forward characteristics of competitive Schottky diodes
  (30%, 2A types, typical curves @ 25 °C)
- Minimized outline
- Reflow soldering footprint

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Date of release: April 2013
Document order number: 9397 750 17425
Printed in the Netherlands