1. General description

Planar Maximum Efficiency General Application (MEGA) Schottky barrier rectifier with an integrated guard ring for stress protection, encapsulated in a SOD128 small and flat lead Surface-Mounted Device (SMD) plastic package.

2. Features and benefits

- Average forward current: $I_{F(AV)} \leq 2\, A$
- Reverse voltage: $V_R \leq 60\, V$
- Low forward voltage
- High power capability due to clip-bonding technology
- Small and flat lead SMD plastic package
- AEC-Q101 qualified
- High temperature $T_j \leq 175\, ^\circ C$
- Capable for reflow and wave soldering

3. Applications

- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch mode power supply
- Reverse polarity protection

4. Quick reference data

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Parameter</th>
<th>Conditions</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
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<tbody>
<tr>
<td>$I_F$</td>
<td>forward current</td>
<td>$T_{sp} = 165, ^\circ C$</td>
<td>-</td>
<td>-</td>
<td>2.8</td>
<td>A</td>
</tr>
<tr>
<td>$I_{F(AV)}$</td>
<td>average forward current</td>
<td>$\delta = 0.5; f = 20, kHz; T_{amb} \leq 120, ^\circ C; square wave$</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$\delta = 0.5; f = 20, kHz; T_{sp} \leq 170, ^\circ C; square wave$</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>$V_R$</td>
<td>reverse voltage</td>
<td>$T_j = 25, ^\circ C$</td>
<td>-</td>
<td>-</td>
<td>60</td>
<td>V</td>
</tr>
<tr>
<td>$V_F$</td>
<td>forward voltage</td>
<td>$I_F = 2, A; T_j = 25, ^\circ C$</td>
<td>-</td>
<td>460</td>
<td>530</td>
<td>mV</td>
</tr>
<tr>
<td>$I_R$</td>
<td>reverse current</td>
<td>$V_R = 60, V; t_p \leq 300, \mu s; \delta \leq 0.02; T_j = 25, ^\circ C; pulsed$</td>
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<td>60</td>
<td>150</td>
<td>$\mu A$</td>
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<td>$t_{rr}$</td>
<td>reverse recovery time</td>
<td>$I_F = 0.5, A; I_R = 0.5, A; I_{R(meas)} = 0.1, A; T_j = 25, ^\circ C$</td>
<td>-</td>
<td>8.6</td>
<td>-</td>
<td>ns</td>
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5. Pinning information

Table 2. Pinning information

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<th>Pin</th>
<th>Symbol</th>
<th>Description</th>
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<th>Graphic symbol</th>
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<tr>
<td>1</td>
<td>K</td>
<td>cathode[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>A</td>
<td>anode</td>
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</table>

[1] The marking bar indicates the cathode.

6. Ordering information

Table 3. Ordering information

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<thead>
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<th>Package</th>
<th>Name</th>
<th>Description</th>
<th>Version</th>
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<tr>
<td>PMEG6020ETP</td>
<td>CFP5</td>
<td>plastic, surface mounted package; 2 terminals; 4 mm pitch; 3.8 mm x 2.6 mm x 1 mm body</td>
<td>SOD128</td>
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7. Marking

Table 4. Marking codes

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<td>PMEG6020ETP</td>
<td>D9</td>
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8. Limiting values

Table 5. Limiting values
In accordance with the Absolute Maximum Rating System (IEC 60134).

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<th>Conditions</th>
<th>Min</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>V_R</td>
<td>reverse voltage</td>
<td>T_j = 25 °C</td>
<td>-</td>
<td>60</td>
<td>V</td>
</tr>
<tr>
<td>I_F</td>
<td>forward current</td>
<td>T_sp = 165 °C</td>
<td>-</td>
<td>2.8</td>
<td>A</td>
</tr>
<tr>
<td>I_F(AV)</td>
<td>average forward current</td>
<td>δ = 0.5; f = 20 kHz; T_amb ≤ 120 °C; square wave</td>
<td>[1]</td>
<td>-</td>
<td>2 A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>δ = 0.5; f = 20 kHz; T_sp ≤ 170 °C; square wave</td>
<td>-</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>I_FSM</td>
<td>non-repetitive peak forward current</td>
<td>t_p = 8 ms; square wave; T_jinit = 25 °C</td>
<td>-</td>
<td>50</td>
<td>A</td>
</tr>
<tr>
<td>P_tot</td>
<td>total power dissipation</td>
<td>T_amb ≤ 25 °C</td>
<td>[2]</td>
<td>-</td>
<td>750 mW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[3]</td>
<td>-</td>
<td>1250 mW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[1]</td>
<td>-</td>
<td>2500 mW</td>
</tr>
<tr>
<td>T_j</td>
<td>junction temperature</td>
<td></td>
<td>-</td>
<td>175</td>
<td>°C</td>
</tr>
<tr>
<td>T_amb</td>
<td>ambient temperature</td>
<td></td>
<td>-55</td>
<td>175</td>
<td>°C</td>
</tr>
<tr>
<td>T_stg</td>
<td>storage temperature</td>
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<td>-65</td>
<td>175</td>
<td>°C</td>
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</table>


9. Thermal characteristics

Table 6. Thermal characteristics

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Parameter</th>
<th>Conditions</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_nh(j-a)</td>
<td>thermal resistance</td>
<td>in free air</td>
<td>[1]</td>
<td>[2]</td>
<td>-</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>from junction to ambient</td>
<td></td>
<td>[1]</td>
<td>[3]</td>
<td>-</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[1]</td>
<td>[4]</td>
<td>-</td>
<td>60</td>
</tr>
<tr>
<td>R_nh(j-sp)</td>
<td>thermal resistance</td>
<td></td>
<td>[5]</td>
<td>-</td>
<td>-</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>from junction to solder point</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[1] For Schottky barrier diodes thermal runaway has to be considered, as in some applications the reverse power losses P_R are a significant part of the total power losses.
Fig. 1. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

FR4 PCB, standard footprint

Fig. 2. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

FR4 PCB, mounting pad for cathode 1 cm²
Ceramic PCB, Al₂O₃, standard footprint

Fig. 3. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values
### 10. Characteristics

#### Table 7. Characteristics

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Parameter</th>
<th>Conditions</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>$V_F$</td>
<td>forward voltage</td>
<td>$I_F = 0.1 \text{ A}; T_j = 25 ^\circ \text{C}$</td>
<td>-</td>
<td>300</td>
<td>340</td>
<td>mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$I_F = 0.5 \text{ A}; T_j = 25 ^\circ \text{C}$</td>
<td>-</td>
<td>360</td>
<td>420</td>
<td>mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$I_F = 1 \text{ A}; T_j = 25 ^\circ \text{C}$</td>
<td>-</td>
<td>400</td>
<td>460</td>
<td>mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$I_F = 1.5 \text{ A}; T_j = 25 ^\circ \text{C}$</td>
<td>-</td>
<td>430</td>
<td>500</td>
<td>mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$I_F = 2 \text{ A}; T_j = 25 ^\circ \text{C}$</td>
<td>-</td>
<td>460</td>
<td>530</td>
<td>mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$I_F = 2 \text{ A}; T_j = -40 ^\circ \text{C}$</td>
<td>-</td>
<td>500</td>
<td>590</td>
<td>mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$I_F = 2 \text{ A}; T_j = 125 ^\circ \text{C}$</td>
<td>-</td>
<td>395</td>
<td>480</td>
<td>mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$I_F = 2 \text{ A}; T_j = 150 ^\circ \text{C}$</td>
<td>-</td>
<td>380</td>
<td>460</td>
<td>mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$I_F = 2 \text{ A}; T_j = 175 ^\circ \text{C}$</td>
<td>-</td>
<td>360</td>
<td>450</td>
<td>mV</td>
</tr>
<tr>
<td>$I_R$</td>
<td>reverse current</td>
<td>$V_R = 5 \text{ V}; t_p \leq 300 \mu\text{s}; \delta \leq 0.02; T_j = 25 ^\circ \text{C}$ pulsed</td>
<td>-</td>
<td>2.5</td>
<td>-</td>
<td>µA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$V_R = 10 \text{ V}; t_p \leq 300 \mu\text{s}; \delta \leq 0.02; T_j = 25 ^\circ \text{C}$ pulsed</td>
<td>-</td>
<td>3.5</td>
<td>-</td>
<td>µA</td>
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<tr>
<td></td>
<td></td>
<td>$V_R = 60 \text{ V}; t_p \leq 300 \mu\text{s}; \delta \leq 0.02; T_j = 25 ^\circ \text{C}$ pulsed</td>
<td>-</td>
<td>60</td>
<td>150</td>
<td>µA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$V_R = 60 \text{ V}; t_p \leq 300 \mu\text{s}; \delta \leq 0.02; T_j = -40 ^\circ \text{C}$ pulsed</td>
<td>-</td>
<td>0.9</td>
<td>15</td>
<td>µA</td>
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<tr>
<td></td>
<td></td>
<td>$V_R = 60 \text{ V}; t_p \leq 300 \mu\text{s}; \delta \leq 0.02; T_j = 125 ^\circ \text{C}$ pulsed</td>
<td>-</td>
<td>27</td>
<td>100</td>
<td>mA</td>
</tr>
<tr>
<td>$C_d$</td>
<td>diode capacitance</td>
<td>$V_R = 1 \text{ V}; f = 1 \text{ MHz}; T_j = 25 ^\circ \text{C}$</td>
<td>-</td>
<td>240</td>
<td>-</td>
<td>pF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$V_R = 10 \text{ V}; f = 1 \text{ MHz}; T_j = 25 ^\circ \text{C}$</td>
<td>-</td>
<td>80</td>
<td>-</td>
<td>pF</td>
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<tr>
<td>$t_{rr}$</td>
<td>reverse recovery time</td>
<td>$I_F = 0.5 \text{ A}; I_R = 0.5 \text{ A}; I_{R(meas)} = 0.1 \text{ A}; T_j = 25 ^\circ \text{C}$</td>
<td>-</td>
<td>8.6</td>
<td>-</td>
<td>ns</td>
</tr>
<tr>
<td>$V_{FRM}$</td>
<td>peak forward recovery voltage</td>
<td>$I_F = 1 \text{ A}; dI_F/dt = 40 \text{ A}/\mu\text{s}; T_j = 25 ^\circ \text{C}$</td>
<td>-</td>
<td>401</td>
<td>-</td>
<td>mV</td>
</tr>
</tbody>
</table>
**Fig. 4.** Forward current as a function of forward voltage; typical values

(1) $T_J = 175 \, ^\circ\text{C}$
(2) $T_J = 150 \, ^\circ\text{C}$
(3) $T_J = 125 \, ^\circ\text{C}$
(4) $T_J = 85 \, ^\circ\text{C}$
(5) $T_J = 25 \, ^\circ\text{C}$
(6) $T_J = -40 \, ^\circ\text{C}$

**Fig. 5.** Reverse current as a function of reverse voltage; typical values

(1) $T_J = 175 \, ^\circ\text{C}$
(2) $T_J = 150 \, ^\circ\text{C}$
(3) $T_J = 125 \, ^\circ\text{C}$
(4) $T_J = 85 \, ^\circ\text{C}$
(5) $T_J = 25 \, ^\circ\text{C}$
(6) $T_J = -40 \, ^\circ\text{C}$

**Fig. 6.** Diode capacitance as a function of reverse voltage; typical values

$\text{f} = 1 \, \text{MHz}; \ T_{\text{amb}} = 25 \, ^\circ\text{C}$

**Fig. 7.** Average forward power dissipation as a function of average forward current; typical values

$T_J = 175 \, ^\circ\text{C}$
(1) $\delta = 0.1$
(2) $\delta = 0.2$
(3) $\delta = 0.5$
(4) $\delta = 1$
High-temperature 60 V, 2 A Schottky barrier rectifier

Fig. 8. Average reverse power dissipation as a function of reverse voltage; typical values

- $T_j = 150 \, ^\circ C$
  - (1) $\delta = 1$
  - (2) $\delta = 0.5$
  - (3) $\delta = 0.2$
  - (4) $\delta = 0.1$

Fig. 9. Average reverse power dissipation as a function of reverse voltage; typical values

- $T_j = 125 \, ^\circ C$
  - (1) $\delta = 1$
  - (2) $\delta = 0.5$
  - (3) $\delta = 0.2$
  - (4) $\delta = 0.1$

Fig. 10. Average reverse power dissipation as a function of reverse voltage; typical values

- $T_j = 85 \, ^\circ C$
  - (1) $\delta = 1$
  - (2) $\delta = 0.5$
  - (3) $\delta = 0.2$
  - (4) $\delta = 0.1$

Fig. 11. Average forward current as a function of ambient temperature; typical values

- FR4 PCB, standard footprint
  - $T_j = 175 \, ^\circ C$
    - (1) $\delta = 1$ (DC)
    - (2) $\delta = 0.5; f = 20 \, kHz$
    - (3) $\delta = 0.2; f = 20 \, kHz$
    - (4) $\delta = 0.1; f = 20 \, kHz$
High-temperature 60 V, 2 A Schottky barrier rectifier

FR4 PCB, mounting pad for cathode 1 cm²
$T_j = 175 \, ^\circ\text{C}$
1. $\delta = 1$ (DC)
2. $\delta = 0.5; f = 20 \, \text{kHz}$
3. $\delta = 0.2; f = 20 \, \text{kHz}$
4. $\delta = 0.1; f = 20 \, \text{kHz}$

Ceramic PCB, $\text{Al}_2\text{O}_3$, standard footprint
$T_j = 175 \, ^\circ\text{C}$
1. $\delta = 1$ (DC)
2. $\delta = 0.5; f = 20 \, \text{kHz}$
3. $\delta = 0.2; f = 20 \, \text{kHz}$
4. $\delta = 0.1; f = 20 \, \text{kHz}$

Fig. 12. Average forward current as a function of ambient temperature; typical values
Fig. 13. Average forward current as a function of ambient temperature; typical values
Fig. 14. Average forward current as a function of solder point temperature; typical values
11. Test information

Fig. 15. Reverse recovery definition

Fig. 16. Forward recovery definition

Fig. 17. Duty cycle definition

The current ratings for the typical waveforms are calculated according to the equations:

$$I_{F(AV)} = I_M \times \delta$$

with $I_M$ defined as peak current, $I_{RMS} = I_{F(AV)}$ at DC, and $I_{RMS} = I_M \times \sqrt{\delta}$ with $I_{RMS}$ defined as RMS current.
Quality information
This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard Q101 - Stress test qualification for discrete semiconductors, and is suitable for use in automotive applications.

12. Package outline

![Package outline CFP5 (SOD128)](image)

Fig. 18. Package outline CFP5 (SOD128)

13. Soldering

![Reflow soldering footprint for CFP5 (SOD128)](image)

Fig. 19. Reflow soldering footprint for CFP5 (SOD128)
Fig. 20. Wave soldering footprint for CFP5 (SOD128)
14. Revision history

Table 8. Revision history

<table>
<thead>
<tr>
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<th>Release date</th>
<th>Data sheet status</th>
<th>Change notice</th>
<th>Supersedes</th>
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<td>20180528</td>
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<td>PMEG6010EP v.1</td>
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15. Legal information

Data sheet status

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<td>Qualification</td>
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<tr>
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<td>Production</td>
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[1] Please consult the most recently issued document before initiating or completing a design.
[2] The term ‘short data sheet’ is explained in section “Definitions”.
[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at https://www.nexperia.com.

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