PMEG3010AESA

## 1. General description

Planar Maximum Efficiency General Application (MEGA) Schottky barrier rectifier with an integrated guard ring for stress protection in a leadless ultra small DSN1006U-2 (SOD995) Surface-Mounted Device (SMD) package.

## 2. Features and benefits

- Average forward current: $\mathrm{I}_{\mathrm{F}(\mathrm{AV})} \leq 1 \mathrm{~A}$
- Reverse voltage: $\mathrm{V}_{\mathrm{R}} \leq 30 \mathrm{~V}$
- Low forward voltage, typical: $\mathrm{V}_{\mathrm{F}}=415 \mathrm{mV}$
- Low reverse current, typical: $\mathrm{I}_{\mathrm{R}}=300 \mu \mathrm{~A}$
- Package height typ. $270 \mu \mathrm{~m}$


## 3. Applications

- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch mode power supply
- Low power consumption applications
- Ultra high-speed switching
- LED backlight for mobile application


## 4. Quick reference data

Table 1. Quick reference data

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{I}_{\text {F (AV) }}$ | average forward current | $\delta=0.5 ; \mathrm{f}=20 \mathrm{kHz} ; \mathrm{T}_{\mathrm{sp}} \leq 145^{\circ} \mathrm{C} ;$ <br> square wave | - | - | 1 | A |
| $\mathrm{V}_{\mathrm{R}}$ | reverse voltage | $\mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ | - | - | 30 | V |
| $V_{F}$ | forward voltage | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=1 \mathrm{~A} ; \mathrm{t}_{\mathrm{p}} \leq 300 \mu \mathrm{~s} ; \delta \leq 0.02 ; \\ & \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C} \end{aligned}$ | - | 415 | 480 | mV |
| $\mathrm{I}_{\mathrm{R}}$ | reverse current | $\mathrm{V}_{\mathrm{R}}=20 \mathrm{~V} ; \mathrm{t}_{\mathrm{p}} \leq 3 \mathrm{~ms} ; \delta \leq 0.3 ; \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ | - | 60 | 255 | $\mu \mathrm{A}$ |
|  |  | $\mathrm{V}_{\mathrm{R}}=30 \mathrm{~V} ; \mathrm{t}_{\mathrm{p}} \leq 3 \mathrm{~ms} ; \delta \leq 0.3 ; \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ | - | 300 | 1250 | $\mu \mathrm{A}$ |

## 5. Pinning information

Table 2. Pinning information

| Pin | Symbol | Description | Simplified outline | Graphic symbol |
| :---: | :---: | :---: | :---: | :---: |
| 1 | K | cathode[1] |  | 1 §2 |
| 2 | A | anode | 1 <br> Transparent top view DSN1006U-2 (SOD995) | sym001 |

[1] The marking bar indicates the cathode.

## 6. Ordering information

Table 3. Ordering information

| Type number | Package |  |  |
| :--- | :--- | :--- | :--- |
|  | Name | Description | Version |
| PMEG3010AESA | DSN1006U-2 | leadless ultra small package; 2 terminals; body $1.0 \times 0.6$ <br> $\times 0.27 \mathrm{~mm}$ | SOD995 |

## 7. Marking

Table 4. Marking codes

| Type number | Marking code |
| :--- | :--- |
| PMEG3010AESA | 3B |

## 8. Limiting values

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

| Symbol | Parameter | Conditions |  | Min | Max | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{R}}$ | reverse voltage | $\mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ |  | - | 30 | V |
| $I_{\text {F }}$ | forward current | $\mathrm{T}_{\text {sp }} \leq 140^{\circ} \mathrm{C} ; \delta=1$ |  | - | 1.4 | A |
| $\mathrm{I}_{\mathrm{F}(\mathrm{AV})}$ | average forward current | $\delta=0.5 ; \mathrm{f}=20 \mathrm{kHz} ; \mathrm{T}_{\mathrm{amb}} \leq 115^{\circ} \mathrm{C} ;$ <br> square wave | [1] | - | 1 | A |
|  |  | $\delta=0.5 ; \mathrm{f}=20 \mathrm{kHz} ; \mathrm{T}_{\mathrm{sp}} \leq 145^{\circ} \mathrm{C} ;$ <br> square wave |  | - | 1 | A |
| IFRM | repetitive peak forward current | $\mathrm{t}_{\mathrm{p}} \leq 1 \mathrm{~ms} ; \delta \leq 0.25$ |  | - | 4 | A |
| $\mathrm{I}_{\text {FSM }}$ | non-repetitive peak forward current | $\mathrm{t}_{\mathrm{p}}=8 \mathrm{~ms} ; \mathrm{T}_{\mathrm{j} \text { (init) }}=25^{\circ} \mathrm{C}$; square wave |  | - | 10 | A |
| $\mathrm{P}_{\text {tot }}$ | total power dissipation | $\mathrm{T}_{\mathrm{amb}} \leq 25^{\circ} \mathrm{C}$ | [2] | - | 0.69 | W |
|  |  |  | [3] | - | 1.19 | W |
|  |  |  | [1] | - | 1.78 | W |
| $\mathrm{T}_{\mathrm{j}}$ | junction temperature |  |  | - | 150 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\text {amb }}$ | ambient temperature |  |  | -55 | 150 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\text {stg }}$ | storage temperature |  |  | -65 | 150 | ${ }^{\circ} \mathrm{C}$ |

[1] Device mounted on a ceramic Printed-Circuit Board (PCB), $\mathrm{Al}_{2} \mathrm{O}_{3}$, standard footprint.
[2] Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.
[3] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for anode and cathode $1 \mathrm{~cm}^{2}$ each.

## 9. Thermal characteristics

Table 6. Thermal characteristics

| Symbol | Parameter | Conditions |  | Min | Typ | Max | Unit |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $R_{\text {th(j-a) }}$ | thermal resistance <br> from junction to <br> ambient | in free air |  | $[1][2]$ | - | - | 180 |
|  | $[1][3]$ | - | - | K/W |  |  |  |
| $R_{\text {th(j-sp) }}$ | thermal resistance <br> from junction to solder <br> point |  | $[1][4]$ | - | - | 70 | K/W |

[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.
[2] Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.
[3] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for anode and cathode $1 \mathrm{~cm}^{2}$ each.
[4] Device mounted on a ceramic $\mathrm{PCB}, \mathrm{Al}_{2} \mathrm{O}_{3}$, standard footprint.
[5] Soldering point of anode tab.


Fig. 1. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values


FR4 PCB, mounting pad for anode and cathode $1 \mathrm{~cm}^{2}$ each
Fig. 2. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values


Ceramic $\mathrm{PCB}, \mathrm{Al}_{2} \mathrm{O}_{3}$, standard footprint
Fig. 3. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

## 10. Characteristics

Table 7. Characteristics

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{V}_{(\mathrm{BR}) \mathrm{R}}$ | reverse breakdown voltage | $\begin{aligned} & \mathrm{I}_{\mathrm{R}}=10 \mathrm{~mA} ; \mathrm{t}_{\mathrm{p}}=300 \mu \mathrm{~s} ; \delta=0.02 ; \\ & \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C} \end{aligned}$ | 30 | - | - | V |
| $V_{F}$ | forward voltage | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=1 \mathrm{~mA} ; \mathrm{t}_{\mathrm{p}} \leq 300 \mu \mathrm{~s} ; \delta \leq 0.02 ; \\ & \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C} \end{aligned}$ | - | 140 | - | mV |
|  |  | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA} ; \mathrm{t}_{\mathrm{p}} \leq 300 \mu \mathrm{~s} ; \delta \leq 0.02 ; \\ & \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C} \end{aligned}$ | - | 200 | - | mV |
|  |  | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=100 \mathrm{~mA} ; \mathrm{t}_{\mathrm{p}} \leq 300 \mu \mathrm{~s} ; \delta \leq 0.02 ; \\ & \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C} \end{aligned}$ | - | 270 | 325 | mV |
|  |  | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=200 \mathrm{~mA} ; \mathrm{t}_{\mathrm{p}} \leq 300 \mu \mathrm{~s} ; \delta \leq 0.02 ; \\ & \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C} \end{aligned}$ | - | 300 | - | mV |
|  |  | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=500 \mathrm{~mA} ; \mathrm{t}_{\mathrm{p}} \leq 300 \mu \mathrm{~s} ; \delta \leq 0.02 ; \\ & \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C} \end{aligned}$ | - | 355 | 405 | mV |
|  |  | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=700 \mathrm{~mA} ; \mathrm{t}_{\mathrm{p}} \leq 300 \mu \mathrm{~s} ; \delta \leq 0.02 ; \\ & \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C} \end{aligned}$ | - | 380 | - | mV |
|  |  | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=1 \mathrm{~A} ; \mathrm{t}_{\mathrm{p}} \leq 300 \mu \mathrm{~s} ; \delta \leq 0.02 ; \\ & \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C} \end{aligned}$ | - | 415 | 480 | mV |
| $\mathrm{I}_{\mathrm{R}}$ | reverse current | $\mathrm{V}_{\mathrm{R}}=5 \mathrm{~V} ; \mathrm{t}_{\mathrm{p}} \leq 3 \mathrm{~ms} ; \delta \leq 0.3 ; \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ | - | 13 | - | $\mu \mathrm{A}$ |
|  |  | $\mathrm{V}_{\mathrm{R}}=10 \mathrm{~V} ; \mathrm{t}_{\mathrm{p}} \leq 3 \mathrm{~ms} ; \delta \leq 0.3 ; \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ | - | 22 | 90 | $\mu \mathrm{A}$ |
|  |  | $\mathrm{V}_{\mathrm{R}}=20 \mathrm{~V} ; \mathrm{t}_{\mathrm{p}} \leq 3 \mathrm{~ms} ; \delta \leq 0.3 ; \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ | - | 60 | 255 | $\mu \mathrm{A}$ |
|  |  | $\mathrm{V}_{\mathrm{R}}=30 \mathrm{~V} ; \mathrm{t}_{\mathrm{p}} \leq 3 \mathrm{~ms} ; \delta \leq 0.3 ; \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ | - | 300 | 1250 | $\mu \mathrm{A}$ |
| $\mathrm{C}_{\mathrm{d}}$ | diode capacitance | $\mathrm{V}_{\mathrm{R}}=1 \mathrm{~V} ; \mathrm{f}=1 \mathrm{MHz} ; \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ | - | 86 | - | pF |
|  |  | $\mathrm{V}_{\mathrm{R}}=10 \mathrm{~V} ; \mathrm{f}=1 \mathrm{MHz} ; \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ | - | 32 | - | pF |
| $\mathrm{t}_{\text {r }}$ | reverse recovery time | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=0.5 \mathrm{~A} ; \mathrm{I}_{\mathrm{R}}=0.5 \mathrm{~A} ; \mathrm{I}_{\mathrm{R} \text { (meas) }}=0.1 \mathrm{~A} ; \\ & \mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C} \end{aligned}$ | - | 3.5 | - | ns |



Fig. 4. Forward current as a function of forward voltage; typical values


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

pulsed condition
(1) $\mathrm{T}_{\mathrm{j}}=150^{\circ} \mathrm{C}$
(2) $\mathrm{T}_{\mathrm{j}}=125^{\circ} \mathrm{C}$
(3) $T_{j}=85^{\circ} \mathrm{C}$
(4) $T_{j}=25^{\circ} \mathrm{C}$
(5) $\mathrm{T}_{\mathrm{j}}=-40^{\circ} \mathrm{C}$

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

$\mathrm{T}_{\mathrm{j}}=150^{\circ} \mathrm{C}$
(1) $\delta=0.1$
(2) $\delta=0.2$
(3) $\delta=0.5$
(4) $\delta=1$

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


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


FR4 PCB, mounting pad for anode and cathode 1 $\mathrm{cm}^{2}$ each
$\mathrm{T}_{\mathrm{j}}=150^{\circ} \mathrm{C}$
(1) $\delta=1$; DC
(2) $\delta=0.5 ; f=20 \mathrm{kHz}$
(3) $\delta=0.2 ; f=20 \mathrm{kHz}$
(4) $\delta=0.1 ; f=20 \mathrm{kHz}$

Fig. 10. Average forward current as a function of ambient temperature; typical values


FR4 PCB, standard footprint
$\mathrm{T}_{\mathrm{j}}=150^{\circ} \mathrm{C}$
(1) $\delta=1$; DC
(2) $\delta=0.5 ; f=20 \mathrm{kHz}$
(3) $\delta=0.2 ; f=20 \mathrm{kHz}$
(4) $\delta=0.1 ; f=20 \mathrm{kHz}$

Fig. 9. Average forward current as a function of ambient temperature; typical values


Ceramic $\mathrm{PCB}, \mathrm{Al}_{2} \mathrm{O}_{3}$, standard footprint
$\mathrm{T}_{\mathrm{j}}=150^{\circ} \mathrm{C}$
(1) $\delta=1$ (DC)
(2) $\delta=0.5 ; f=20 \mathrm{kHz}$
(3) $\delta=0.2 ; f=20 \mathrm{kHz}$
(4) $\delta=0.1 ; \mathrm{f}=20 \mathrm{kHz}$

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

$\mathrm{T}_{\mathrm{j}}=150^{\circ} \mathrm{C}$
(1) $\delta=1$ (DC)
(2) $\delta=0.5 ; f=20 \mathrm{kHz}$
(3) $\delta=0.2 ; f=20 \mathrm{kHz}$
(4) $\delta=0.1 ; f=20 \mathrm{kHz}$

Fig. 12. Average forward current as a function of solder point temperature; typical values

## 11. Test information



Fig. 13. Reverse recovery definition; step recovery


Fig. 14. Duty cycle definition

The current ratings for the typical waveforms are calculated according to the equations: $I_{F(A V)}=I_{M} \times \delta$ with $I_{M}$ defined as peak current, $I_{R M S}=I_{F(A V)}$ at $D C$, and $I_{R M S}=I_{M} \times \sqrt{ } \delta$ with $\mathrm{I}_{\mathrm{RMS}}$ defined as RMS current.

## 12. Package outline



Fig. 15. Package outline DSN1006U-2 (SOD995)

## 13. Soldering



Fig. 16. Reflow soldering footprint for DSN1006U-2 (SOD995)

## 14. Mounting

SOD995 is an ultra small Discretes Silicon No-leads (DSN) package allowing maximized utilization of the package area for active silicon. Due to the special product design, Nexperia investigated the board assembly process parameters. In order to have an optimum soldering quality, Nexperia advices to follow the assembly recommendations explained in AN11689.

## 15. Revision history

Table 8. Revision history

| Data sheet ID | Release date | Data sheet status | Change notice | Supersedes |
| :--- | :--- | :--- | :--- | :--- |
| PMEG3010AESA v.1 | 20150803 | Preliminary data sheet | - | - |

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