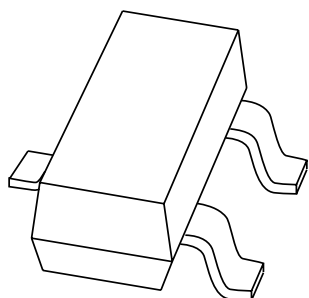


# DATA SHEET



## **PMBZ5226B to PMBZ5257B** Voltage regulator diodes

Product specification  
Supersedes data of 1996 Apr 26

1999 May 17

Voltage regulator diodes

PMBZ5226B to PMBZ5257B

FEATURES

- Total power dissipation:  
max. 250 mW
- Tolerance series:  $\pm 5\%$
- Working voltage range:  
nom. 3.3 to 75 V
- Non-repetitive peak reverse power  
dissipation: max. 40 W.

APPLICATIONS

- General regulation functions.

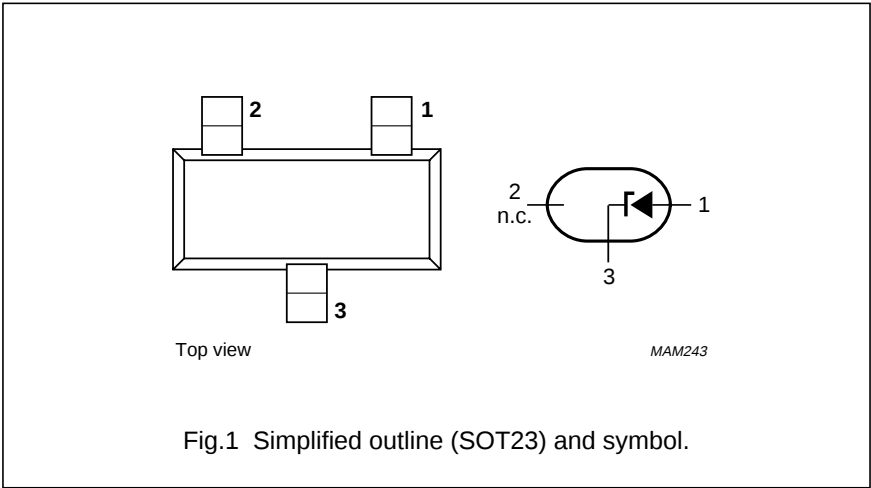
DESCRIPTION

Low-power voltage regulator diodes  
in small SOT23 plastic SMD  
packages.

The series consists of 32 types with  
nominal working voltages from  
3.3 to 75 V.

PINNING

| PIN | DESCRIPTION   |
|-----|---------------|
| 1   | anode         |
| 2   | not connected |
| 3   | cathode       |



MARKING

| TYPE<br>NUMBER | MARKING<br>CODE <sup>(1)</sup> | TYPE<br>NUMBER | MARKING<br>CODE <sup>(1)</sup> | TYPE<br>NUMBER | MARKING<br>CODE <sup>(1)</sup> | TYPE<br>NUMBER | MARKING<br>CODE |
|----------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|-----------------|
| PMBZ5226B      | *8A                            | PMBZ5234B      | *8J                            | PMBZ5242B      | *8S                            | PMBZ5250B      | 81A             |
| PMBZ5227B      | *8B                            | PMBZ5235B      | *8K                            | PMBZ5243B      | *8T                            | PMBZ5251B      | 81B             |
| PMBZ5228B      | *8C                            | PMBZ5236B      | *8L                            | PMBZ5244B      | *8U                            | PMBZ5252B      | 81C             |
| PMBZ5229B      | *8D                            | PMBZ5237B      | *8M                            | PMBZ5245B      | *8V                            | PMBZ5253B      | 81D             |
| PMBZ5230B      | *8E                            | PMBZ5238B      | *8N                            | PMBZ5246B      | *8W                            | PMBZ5254B      | 81E             |
| PMBZ5231B      | *8F                            | PMBZ5239B      | *8P                            | PMBZ5247B      | *8X                            | PMBZ5255B      | 81F             |
| PMBZ5232B      | *8G                            | PMBZ5240B      | *8Q                            | PMBZ5248B      | *8Y                            | PMBZ5256B      | 81G             |
| PMBZ5233B      | *8H                            | PMBZ5241B      | *8R                            | PMBZ5249B      | *8Z                            | PMBZ5257B      | 81H             |

Note

1. \* = p : Made in Hong Kong.  
\* = t : Made in Malaysia.

## Voltage regulator diodes

## PMBZ5226B to PMBZ5257B

**LIMITING VALUES**

In accordance with the Absolute Maximum Rating System (IEC 134).

| SYMBOL    | PARAMETER                                     | CONDITIONS                                                                       | MIN.                    | MAX. | UNIT       |
|-----------|-----------------------------------------------|----------------------------------------------------------------------------------|-------------------------|------|------------|
| $I_F$     | continuous forward current                    |                                                                                  | —                       | 200  | mA         |
| $I_{ZSM}$ | non-repetitive peak reverse current           | $t_p = 100 \mu s$ ; square wave;<br>$T_j = 25^\circ C$ prior to surge            | see Table<br>"Per type" |      |            |
| $P_{tot}$ | total power dissipation                       | $T_{amb} = 25^\circ C$ ; note 1                                                  | —                       | 300  | mW         |
|           |                                               | $T_{amb} = 25^\circ C$ ; note 2                                                  | —                       | 250  | mW         |
| $P_{ZSM}$ | non-repetitive peak reverse power dissipation | $t_p = 100 \mu s$ ; square wave;<br>$T_j = 25^\circ C$ prior to surge; see Fig.2 | —                       | 40   | W          |
| $T_{stg}$ | storage temperature                           |                                                                                  | −65                     | +150 | $^\circ C$ |
| $T_j$     | junction temperature                          |                                                                                  | —                       | 150  | $^\circ C$ |

**Notes**

1. Device mounted on a ceramic substrate of  $8 \times 10 \times 0.7$  mm.
2. Device mounted on an FR4 printed circuit-board.

**ELECTRICAL CHARACTERISTICS****Total series**

$T_j = 25^\circ C$  unless otherwise specified.

| SYMBOL | PARAMETER       | CONDITIONS                | MAX. | UNIT |
|--------|-----------------|---------------------------|------|------|
| $V_F$  | forward voltage | $I_F = 200$ mA; see Fig.3 | 1.1  | V    |

## Voltage regulator diodes

## PMBZ5226B to PMBZ5257B

## Per type

$T_j = 25\text{ }^{\circ}\text{C}$  unless otherwise specified.

| TYPE No.  | WORKING VOLTAGE<br>$V_Z$ (V) <sup>(1)</sup><br>at $I_{Z\text{test}}$ | DIFFERENTIAL RESISTANCE<br>$r_{\text{dif}}$ ( $\Omega$ )<br>at $I_Z = 0.25\text{ mA}$ | TEMP. COEFF.<br>$S_Z$ (%/K)<br>at $I_Z$ <sup>(2)</sup> | TEST CURRENT<br>$I_{Z\text{test}}$ (mA) | DIODE CAP.<br>$C_d$ (pF)<br>at $f = 1\text{ MHz}$ ;<br>at $V_R = 0\text{ V}$ | REVERSE CURRENT at REVERSE VOLTAGE |           | NON-REPETITIVE PEAK REVERSE CURRENT<br>$I_{ZSM}$ (A) at $t_p = 100\text{ }\mu\text{s}$ ;<br>$T_{\text{amb}} = 25\text{ }^{\circ}\text{C}$ |
|-----------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------|------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|
|           | NOM.                                                                 | MAX.                                                                                  | TYP.                                                   |                                         |                                                                              | $I_R$ ( $\mu\text{A}$ )            | $V_R$ (V) |                                                                                                                                           |
|           |                                                                      |                                                                                       |                                                        |                                         | MAX.                                                                         | MAX.                               |           | MAX.                                                                                                                                      |
| PMBZ5226B | 3.3                                                                  | 1600                                                                                  | -0.064                                                 | 20                                      | 450                                                                          | 25                                 | 1.0       | 6.0                                                                                                                                       |
| PMBZ5227B | 3.6                                                                  | 1700                                                                                  | -0.065                                                 | 20                                      | 450                                                                          | 15                                 | 1.0       | 6.0                                                                                                                                       |
| PMBZ5228B | 3.9                                                                  | 1900                                                                                  | -0.063                                                 | 20                                      | 450                                                                          | 10                                 | 1.0       | 6.0                                                                                                                                       |
| PMBZ5229B | 4.3                                                                  | 2000                                                                                  | -0.058                                                 | 20                                      | 450                                                                          | 5                                  | 1.0       | 6.0                                                                                                                                       |
| PMBZ5230B | 4.7                                                                  | 2000                                                                                  | -0.047                                                 | 20                                      | 450                                                                          | 5                                  | 1.0       | 6.0                                                                                                                                       |
| PMBZ5231B | 5.1                                                                  | 2000                                                                                  | -0.013                                                 | 20                                      | 300                                                                          | 5                                  | 2.0       | 6.0                                                                                                                                       |
| PMBZ5232B | 5.6                                                                  | 1600                                                                                  | +0.023                                                 | 20                                      | 300                                                                          | 5                                  | 3.0       | 6.0                                                                                                                                       |
| PMBZ5233B | 6.0                                                                  | 1600                                                                                  | +0.023                                                 | 20                                      | 300                                                                          | 5                                  | 3.5       | 6.0                                                                                                                                       |
| PMBZ5234B | 6.2                                                                  | 1000                                                                                  | +0.039                                                 | 20                                      | 200                                                                          | 5                                  | 4.0       | 6.0                                                                                                                                       |
| PMBZ5235B | 6.8                                                                  | 750                                                                                   | +0.040                                                 | 20                                      | 200                                                                          | 3                                  | 5.0       | 6.0                                                                                                                                       |
| PMBZ5236B | 7.5                                                                  | 500                                                                                   | +0.047                                                 | 20                                      | 150                                                                          | 3                                  | 6.0       | 4.0                                                                                                                                       |
| PMBZ5237B | 8.2                                                                  | 500                                                                                   | +0.052                                                 | 20                                      | 150                                                                          | 3                                  | 6.5       | 4.0                                                                                                                                       |
| PMBZ5238B | 8.7                                                                  | 600                                                                                   | +0.053                                                 | 20                                      | 150                                                                          | 3                                  | 6.5       | 3.5                                                                                                                                       |
| PMBZ5239B | 9.1                                                                  | 600                                                                                   | +0.055                                                 | 20                                      | 150                                                                          | 3                                  | 7.0       | 3.0                                                                                                                                       |
| PMBZ5240B | 10                                                                   | 600                                                                                   | +0.055                                                 | 20                                      | 90                                                                           | 3                                  | 8.0       | 3.0                                                                                                                                       |
| PMBZ5241B | 11                                                                   | 600                                                                                   | +0.058                                                 | 20                                      | 85                                                                           | 2                                  | 8.4       | 2.5                                                                                                                                       |
| PMBZ5242B | 12                                                                   | 600                                                                                   | +0.062                                                 | 20                                      | 85                                                                           | 1                                  | 9.1       | 2.5                                                                                                                                       |
| PMBZ5243B | 13                                                                   | 600                                                                                   | +0.065                                                 | 9.5                                     | 80                                                                           | 0.5                                | 9.9       | 2.5                                                                                                                                       |
| PMBZ5244B | 14                                                                   | 600                                                                                   | +0.067                                                 | 9.0                                     | 80                                                                           | 0.1                                | 10        | 2.0                                                                                                                                       |
| PMBZ5245B | 15                                                                   | 600                                                                                   | +0.073                                                 | 8.5                                     | 75                                                                           | 0.1                                | 11        | 2.0                                                                                                                                       |
| PMBZ5246B | 16                                                                   | 600                                                                                   | +0.073                                                 | 7.8                                     | 75                                                                           | 0.1                                | 12        | 1.5                                                                                                                                       |
| PMBZ5247B | 17                                                                   | 600                                                                                   | +0.073                                                 | 7.4                                     | 75                                                                           | 0.1                                | 13        | 1.5                                                                                                                                       |
| PMBZ5248B | 18                                                                   | 600                                                                                   | +0.078                                                 | 7.0                                     | 70                                                                           | 0.1                                | 14        | 1.5                                                                                                                                       |
| PMBZ5249B | 19                                                                   | 600                                                                                   | +0.078                                                 | 6.6                                     | 70                                                                           | 0.1                                | 14        | 1.5                                                                                                                                       |
| PMBZ5250B | 20                                                                   | 600                                                                                   | +0.080                                                 | 6.2                                     | 60                                                                           | 0.1                                | 15        | 1.5                                                                                                                                       |
| PMBZ5251B | 22                                                                   | 600                                                                                   | +0.080                                                 | 5.6                                     | 60                                                                           | 0.1                                | 17        | 1.25                                                                                                                                      |

## Voltage regulator diodes

PMBZ5226B to PMBZ5257B

| TYPE No.  | WORKING VOLTAGE<br>$V_Z$ (V) <sup>(1)</sup><br>at $I_{Ztest}$ | DIFFERENTIAL RESISTANCE<br>$r_{dif}$ ( $\Omega$ )<br>at $I_Z = 0.25$ mA | TEMP. COEFF.<br>$S_Z$ (%/K)<br>at $I_Z$ <sup>(2)</sup> | TEST CURRENT<br>$I_{Ztest}$ (mA) | DIODE CAP.<br>$C_d$ (pF)<br>at $f = 1$ MHz;<br>at $V_R = 0$ V | REVERSE CURRENT at REVERSE VOLTAGE |           | NON-REPETITIVE PEAK REVERSE CURRENT<br>$I_{ZSM}$ (A) at $t_p = 100$ $\mu$ s;<br>$T_{amb} = 25$ °C |
|-----------|---------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------|---------------------------------------------------------------|------------------------------------|-----------|---------------------------------------------------------------------------------------------------|
|           | NOM.                                                          | MAX.                                                                    | TYP.                                                   |                                  |                                                               | $I_R$ ( $\mu$ A)                   | $V_R$ (V) |                                                                                                   |
| PMBZ5252B | 24                                                            | 600                                                                     | +0.081                                                 | 5.2                              | 55                                                            | 0.1                                | 18        | 1.25                                                                                              |
| PMBZ5253B | 25                                                            | 600                                                                     | +0.082                                                 | 5.0                              | 55                                                            | 0.1                                | 19        | 1.25                                                                                              |
| PMBZ5254B | 27                                                            | 600                                                                     | +0.085                                                 | 4.6                              | 50                                                            | 0.1                                | 21        | 1.0                                                                                               |
| PMBZ5255B | 28                                                            | 600                                                                     | +0.085                                                 | 4.5                              | 50                                                            | 0.1                                | 21        | 1.0                                                                                               |
| PMBZ5256B | 30                                                            | 600                                                                     | +0.085                                                 | 4.2                              | 50                                                            | 0.1                                | 23        | 1.0                                                                                               |
| PMBZ5257B | 33                                                            | 700                                                                     | +0.085                                                 | 3.8                              | 45                                                            | 0.1                                | 25        | 0.9                                                                                               |

## Notes

- $V_Z$  is measured with device at thermal equilibrium while mounted on a ceramic substrate of  $8 \times 10 \times 0.7$  mm.
- For types PMBZ5226B to PMBZ5242B the  $I_Z$  current is 7.5 mA; for PMBZ5243B and higher  $I_Z = I_{Ztest}$ .  $S_Z$  values valid between 25 °C and 125 °C.

Voltage regulator diodes

PMBZ5226B to PMBZ5257B

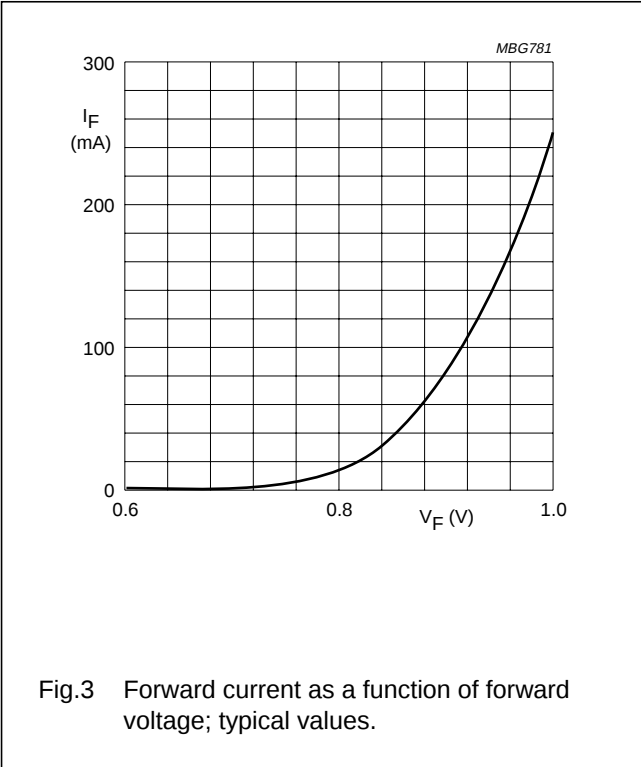
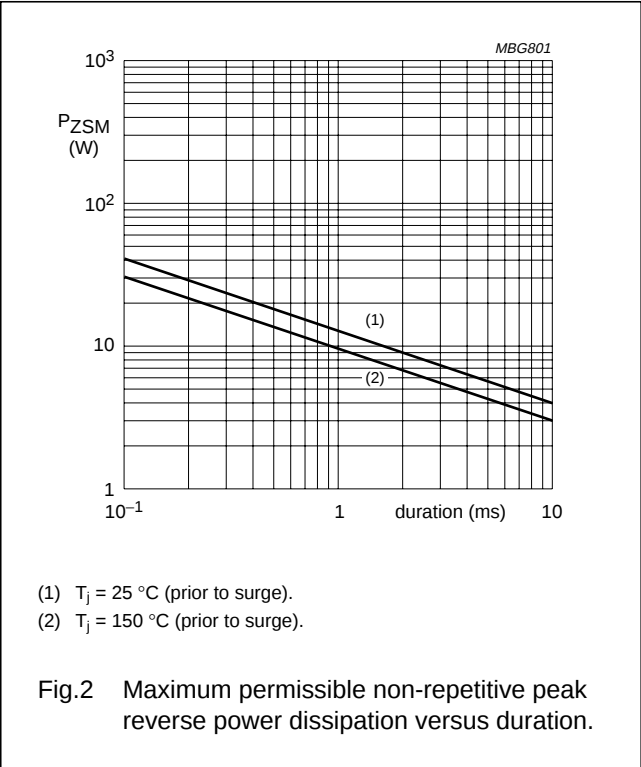
THERMAL CHARACTERISTICS

| SYMBOL         | PARAMETER                                     | CONDITIONS | VALUE | UNIT |
|----------------|-----------------------------------------------|------------|-------|------|
| $R_{th\ j-tp}$ | thermal resistance from junction to tie-point |            | 330   | K/W  |
| $R_{th\ j-a}$  | thermal resistance from junction to ambient   | note 1     | 500   | K/W  |

Note

1. Device mounted on a printed-circuit board.

GRAPHICAL DATA



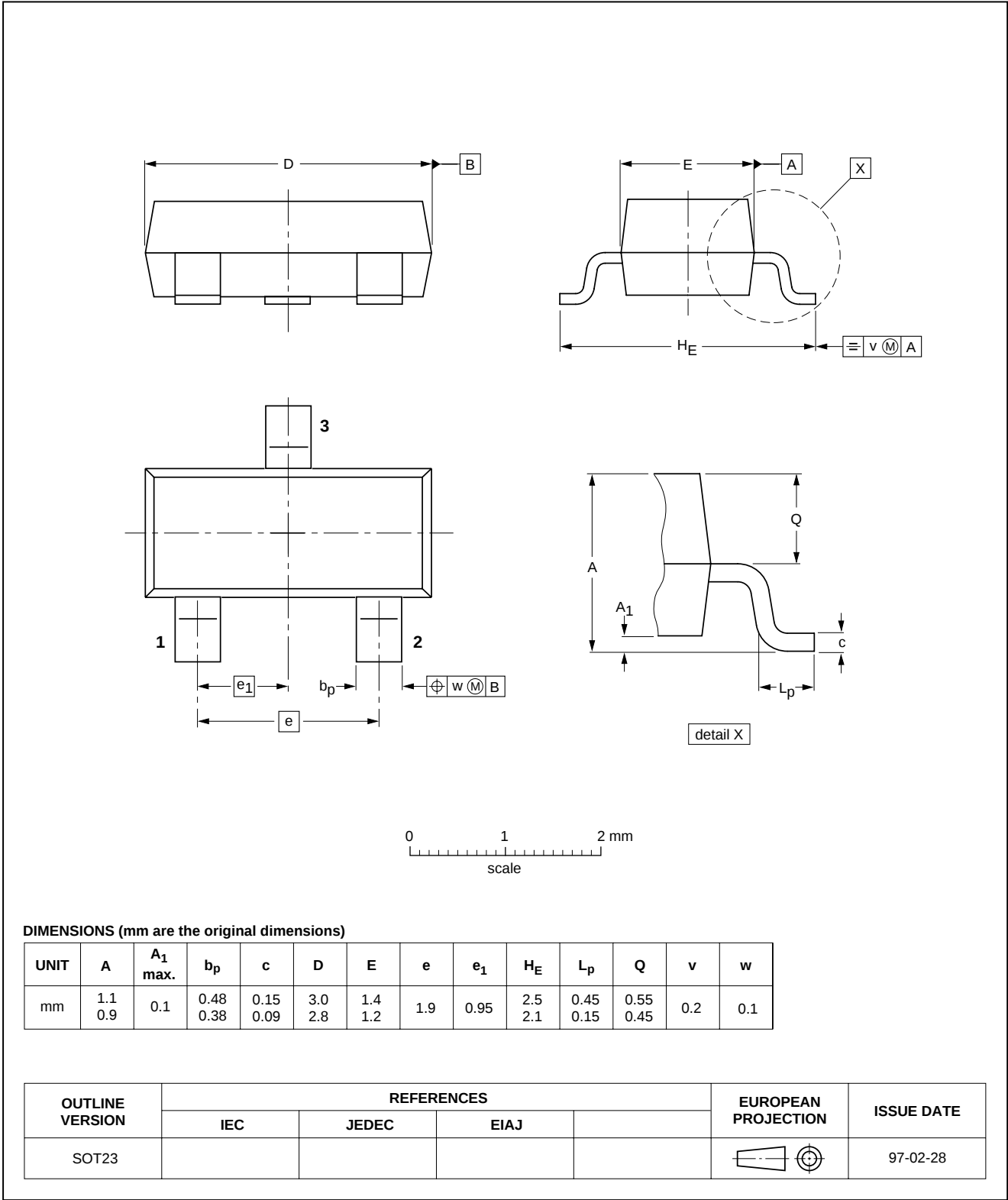
Voltage regulator diodes

PMBZ5226B to PMBZ5257B

PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT23



## Voltage regulator diodes

## PMBZ5226B to PMBZ5257B

**DEFINITIONS**

| <b>Data sheet status</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Objective specification                                                                                                                                                                                                                                                                                                                                                                                                                                   | This data sheet contains target or goal specifications for product development.       |
| Preliminary specification                                                                                                                                                                                                                                                                                                                                                                                                                                 | This data sheet contains preliminary data; supplementary data may be published later. |
| Product specification                                                                                                                                                                                                                                                                                                                                                                                                                                     | This data sheet contains final product specifications.                                |
| <b>Limiting values</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |
| Limiting values given are in accordance with the Absolute Maximum Rating System (IEC 134). Stress above one or more of the limiting values may cause permanent damage to the device. These are stress ratings only and operation of the device at these or at any other conditions above those given in the Characteristics sections of the specification is not implied. Exposure to limiting values for extended periods may affect device reliability. |                                                                                       |
| <b>Application information</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                       |
| Where application information is given, it is advisory and does not form part of the specification.                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |

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Voltage regulator diodes

PMBZ5226B to PMBZ5257B

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**NOTES**

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Voltage regulator diodes

PMBZ5226B to PMBZ5257B

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**NOTES**

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Voltage regulator diodes

PMBZ5226B to PMBZ5257B

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**NOTES**

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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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