

## Small Signal Zener Diodes



### FEATURES

- Very sharp reverse characteristic
- Low reverse current level
- Very high stability
- Low noise
- High reliability
- AEC-Q101 qualified
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

| PRIMARY CHARACTERISTICS      |               |      |
|------------------------------|---------------|------|
| PARAMETER                    | VALUE         | UNIT |
| V <sub>Z</sub> range nom.    | 2.4 to 56     | V    |
| Test current I <sub>ZT</sub> | 5 to 20       | mA   |
| V <sub>Z</sub> specification | Pulse current |      |
| Int. construction            | Single        |      |

### APPLICATIONS

- Voltage stabilization

| ORDERING INFORMATION |                 |                                |                        |
|----------------------|-----------------|--------------------------------|------------------------|
| DEVICE NAME          | ORDERING CODE   | TAPED UNITS PER REEL           | MINIMUM ORDER QUANTITY |
| TLZ-series           | TLZ-series-GS18 | 10 000 (8 mm tape on 13" reel) | 10 000/box             |
| TLZ-series           | TLZ-series-GS08 | 2500 (8 mm tape on 7" reel)    | 12 500/box             |

| PACKAGE         |        |                                      |                                      |                          |
|-----------------|--------|--------------------------------------|--------------------------------------|--------------------------|
| PACKAGE NAME    | WEIGHT | MOLDING COMPOUND FLAMMABILITY RATING | MOISTURE SENSITIVITY LEVEL           | SOLDERING CONDITIONS     |
| MiniMELF SOD-80 | 31 mg  | -                                    | MSL level 1<br>(according J-STD-020) | 260 °C/10 s at terminals |

| ABSOLUTE MAXIMUM RATINGS (T <sub>amb</sub> = 25 °C, unless otherwise specified) |                                    |                   |                                  |      |
|---|------------------------------------|-------------------|----------------------------------|------|
| PARAMETER   | TEST CONDITION                     | SYMBOL            | VALUE                            | UNIT |
| Power dissipation   | R <sub>thJA</sub> ≤ 300 K/W        | P <sub>tot</sub>  | 500                              | mW   |
| Zener current   |                                    | I <sub>Z</sub>    | P <sub>tot</sub> /V <sub>Z</sub> | mA   |
| Junction to ambient air   | On PC board 50 mm x 50 mm x 1.6 mm | R <sub>thJA</sub> | 500                              | K/W  |
| Junction temperature  |                                    | T <sub>j</sub>    | 175                              | °C   |
| Storage temperature range   |                                    | T <sub>stg</sub>  | -65 to +175                      | °C   |
| Forward voltage (max.)  | I <sub>F</sub> = 200 mA            | V <sub>F</sub>    | 1.5                              | V    |



| ELECTRICAL CHARACTERISTICS (T <sub>amb</sub> = 25 °C, unless otherwise specified) |              |                                    |       |                  |                  |                                  |      |                                    |                                     |
|---|--------------|------------------------------------|-------|------------------|------------------|----------------------------------|------|------------------------------------|-------------------------------------|
| PART NUMBER   | MARKING CODE | ZENER VOLTAGE RANGE                |       | TEST CURRENT     |                  | REVERSE LEAKAGE CURRENT          |      | DYNAMIC RESISTANCE                 |                                     |
|   |              | V <sub>Z</sub> at I <sub>ZT1</sub> |       | I <sub>ZT1</sub> | I <sub>ZT2</sub> | I <sub>R</sub> at V <sub>R</sub> |      | Z <sub>Z</sub> at I <sub>ZT1</sub> | Z <sub>ZK</sub> at I <sub>ZT2</sub> |
|   |              | V                                  |       | mA               |                  | μA                               | V    | Ω                                  |                                     |
|   |              | MIN.                               | MAX.  |                  |                  | MAX.                             |      | MAX.                               | MAX.                                |
| TLZ2V4A   | 2A4          | 2.33                               | 2.52  | 20               | 1                | 70                               | 1    | 100                                | 2000                                |
| TLZ2V4B   | 2B4          | 2.43                               | 2.63  | 20               | 1                | 70                               | 1    | 100                                | 2000                                |
| TLZ2V7A   | 2A7          | 2.54                               | 2.75  | 20               | 1                | 50                               | 1    | 100                                | 1000                                |
| TLZ2V7B   | 2B7          | 2.69                               | 2.91  | 20               | 1                | 50                               | 1    | 100                                | 1000                                |
| TLZ3V0A   | 3A0          | 2.85                               | 3.07  | 20               | 1                | 50                               | 1    | 80                                 | 1000                                |
| TLZ3V0B   | 3B0          | 3.01                               | 3.22  | 20               | 1                | 10                               | 1    | 80                                 | 1000                                |
| TLZ3V3A   | 3A3          | 3.16                               | 3.38  | 20               | 1                | 10                               | 1    | 70                                 | 1000                                |
| TLZ3V3B   | 3B3          | 3.32                               | 3.53  | 20               | 1                | 10                               | 1    | 70                                 | 1000                                |
| TLZ3V6A   | 3A6          | 3.455                              | 3.695 | 20               | 1                | 5                                | 1    | 60                                 | 1000                                |
| TLZ3V6B   | 3B6          | 3.6                                | 3.845 | 20               | 1                | 5                                | 1    | 60                                 | 1000                                |
| TLZ3V9A   | 3A9          | 3.74                               | 4.01  | 20               | 1                | 3                                | 1    | 50                                 | 1000                                |
| TLZ3V9B   | 3B9          | 3.89                               | 4.16  | 20               | 1                | 3                                | 1    | 50                                 | 1000                                |
| TLZ4V3A   | 4A3          | 4.04                               | 4.29  | 20               | 1                | 3                                | 1    | 40                                 | 1000                                |
| TLZ4V3B   | 4B3          | 4.17                               | 4.43  | 20               | 1                | 3                                | 1    | 40                                 | 1000                                |
| TLZ4V3C   | 4C3          | 4.3                                | 4.57  | 20               | 1                | 3                                | 1    | 40                                 | 1000                                |
| TLZ4V7A   | 4A7          | 4.44                               | 4.68  | 20               | 1                | 5                                | 1    | 25                                 | 900                                 |
| TLZ4V7B   | 4B7          | 4.55                               | 4.8   | 20               | 1                | 5                                | 1    | 25                                 | 900                                 |
| TLZ4V7C   | 4C7          | 4.68                               | 4.93  | 20               | 1                | 5                                | 1    | 25                                 | 900                                 |
| TLZ5V1A   | 5A1          | 4.81                               | 5.07  | 20               | 1                | 2                                | 2    | 20                                 | 800                                 |
| TLZ5V1B   | 5B1          | 4.94                               | 5.2   | 20               | 1                | 2                                | 2    | 20                                 | 800                                 |
| TLZ5V1C   | 5C1          | 5.09                               | 5.37  | 20               | 1                | 2                                | 2    | 20                                 | 800                                 |
| TLZ5V6A   | 5A6          | 5.28                               | 5.55  | 20               | 1                | 1                                | 2    | 13                                 | 500                                 |
| TLZ5V6B   | 5B6          | 5.45                               | 5.73  | 20               | 1                | 1                                | 2    | 13                                 | 500                                 |
| TLZ5V6C   | 5C6          | 5.61                               | 5.91  | 20               | 1                | 1                                | 2    | 13                                 | 500                                 |
| TLZ6V2A   | 6A2          | 5.78                               | 6.09  | 20               | 1                | 3                                | 4    | 10                                 | 300                                 |
| TLZ6V2B   | 6B2          | 5.96                               | 6.27  | 20               | 1                | 3                                | 4    | 10                                 | 300                                 |
| TLZ6V2C   | 6C2          | 6.12                               | 6.44  | 20               | 1                | 3                                | 4    | 10                                 | 300                                 |
| TLZ6V8A   | 6A8          | 6.29                               | 6.63  | 20               | 0.5              | 2                                | 4    | 8                                  | 150                                 |
| TLZ6V8B   | 6B8          | 6.49                               | 6.83  | 20               | 0.5              | 2                                | 4    | 8                                  | 150                                 |
| TLZ6V8C   | 6C8          | 6.66                               | 7.01  | 20               | 0.5              | 2                                | 4    | 8                                  | 150                                 |
| TLZ7V5A   | 7A5          | 6.85                               | 7.22  | 20               | 0.5              | 3                                | 6.5  | 8                                  | 120                                 |
| TLZ7V5B   | 7B5          | 7.07                               | 7.45  | 20               | 0.5              | 3                                | 6.73 | 8                                  | 120                                 |
| TLZ7V5C   | 7C5          | 7.29                               | 7.67  | 20               | 0.5              | 3                                | 6.93 | 8                                  | 120                                 |
| TLZ8V2A   | 8A2          | 7.53                               | 7.92  | 20               | 0.5              | 7.5                              | 7.15 | 8                                  | 120                                 |
| TLZ8V2B   | 8B2          | 7.78                               | 8.19  | 20               | 0.5              | 7.5                              | 7.39 | 8                                  | 120                                 |
| TLZ8V2C   | 8C2          | 8.03                               | 8.45  | 20               | 0.5              | 7.5                              | 7.63 | 8                                  | 120                                 |
| TLZ9V1A   | 9A1          | 8.29                               | 8.73  | 20               | 0.5              | 0.04                             | 7.88 | 8                                  | 120                                 |
| TLZ9V1B   | 9B1          | 8.57                               | 9.01  | 20               | 0.5              | 0.04                             | 8.14 | 8                                  | 120                                 |
| TLZ9V1C   | 9C1          | 8.83                               | 9.3   | 20               | 0.5              | 0.04                             | 8.39 | 8                                  | 120                                 |
| TLZ10A  | 10A          | 9.12                               | 9.59  | 20               | 0.5              | 0.04                             | 8.66 | 8                                  | 120                                 |
| TLZ10B  | 10B          | 9.41                               | 9.9   | 20               | 0.5              | 0.04                             | 8.94 | 8                                  | 120                                 |
| TLZ10C  | 10C          | 9.7                                | 10.2  | 20               | 0.5              | 0.04                             | 9.22 | 8                                  | 120                                 |
| TLZ10D  | 10D          | 9.94                               | 10.44 | 20               | 0.5              | 0.04                             | 9.44 | 8                                  | 120                                 |



| <b>ELECTRICAL CHARACTERISTICS</b> ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified) |              |                     |       |              |           |                         |       |                    |                       |
|--|--------------|---------------------|-------|--------------|-----------|-------------------------|-------|--------------------|-----------------------|
| PART NUMBER  | MARKING CODE | ZENER VOLTAGE RANGE |       | TEST CURRENT |           | REVERSE LEAKAGE CURRENT |       | DYNAMIC RESISTANCE |                       |
|  |              | $V_Z$ at $I_{ZT1}$  |       | $I_{ZT1}$    | $I_{ZT2}$ | $I_R$ at $V_R$          |       | $Z_Z$ at $I_{ZT1}$ | $Z_{ZK}$ at $I_{ZT2}$ |
|  |              | V                   |       | mA           |           | $\mu\text{A}$           | V     | $\Omega$           |                       |
|  |              | MIN.                | MAX.  |              |           | MAX.                    |       | MAX.               | MAX.                  |
| TLZ11A   | 11A          | 10.18               | 10.71 | 10           | 0.5       | 0.04                    | 9.67  | 10                 | 120                   |
| TLZ11B   | 11B          | 10.5                | 11.05 | 10           | 0.5       | 0.04                    | 9.98  | 10                 | 120                   |
| TLZ11C   | 11C          | 10.82               | 11.38 | 10           | 0.5       | 0.04                    | 10.28 | 10                 | 120                   |
| TLZ12A   | 12A          | 11.13               | 11.71 | 10           | 0.5       | 0.04                    | 10.6  | 12                 | 110                   |
| TLZ12B   | 12B          | 11.44               | 12.03 | 10           | 0.5       | 0.04                    | 10.9  | 12                 | 110                   |
| TLZ12C   | 12C          | 11.74               | 12.35 | 10           | 0.5       | 0.04                    | 11.2  | 12                 | 110                   |
| TLZ13A   | 13A          | 12.11               | 12.75 | 10           | 0.5       | 0.04                    | 11.5  | 14                 | 110                   |
| TLZ13B   | 13B          | 12.55               | 13.21 | 10           | 0.5       | 0.04                    | 11.9  | 14                 | 110                   |
| TLZ13C   | 13C          | 12.99               | 13.66 | 10           | 0.5       | 0.04                    | 12.3  | 14                 | 110                   |
| TLZ15A   | 15A          | 13.44               | 14.13 | 10           | 0.5       | 0.04                    | 12.8  | 16                 | 110                   |
| TLZ15B   | 15B          | 13.89               | 14.62 | 10           | 0.5       | 0.04                    | 13.2  | 16                 | 110                   |
| TLZ15C   | 15C          | 14.35               | 15.09 | 10           | 0.5       | 0.04                    | 13.6  | 16                 | 110                   |
| TLZ16A   | 16A          | 14.8                | 15.57 | 10           | 0.5       | 0.04                    | 14.1  | 18                 | 150                   |
| TLZ16B   | 16B          | 15.25               | 16.04 | 10           | 0.5       | 0.04                    | 14.5  | 18                 | 150                   |
| TLZ16C   | 16C          | 15.69               | 16.51 | 10           | 0.5       | 0.04                    | 14.9  | 18                 | 150                   |
| TLZ18A   | 18A          | 16.22               | 17.06 | 10           | 0.5       | 0.04                    | 15.4  | 23                 | 150                   |
| TLZ18B   | 18B          | 16.82               | 17.7  | 10           | 0.5       | 0.04                    | 16    | 23                 | 150                   |
| TLZ18C   | 18C          | 17.42               | 18.33 | 10           | 0.5       | 0.04                    | 16.5  | 23                 | 150                   |
| TLZ20A   | 20A          | 18.02               | 18.96 | 10           | 0.5       | 0.04                    | 17.1  | 28                 | 200                   |
| TLZ20B   | 20B          | 18.63               | 19.59 | 10           | 0.5       | 0.04                    | 17.7  | 28                 | 200                   |
| TLZ20C   | 20C          | 19.23               | 20.22 | 10           | 0.5       | 0.04                    | 18.3  | 28                 | 200                   |
| TLZ20D   | 20D          | 19.72               | 20.72 | 10           | 0.5       | 0.04                    | 18.7  | 28                 | 200                   |
| TLZ22A   | 22A          | 20.15               | 21.2  | 5            | 0.5       | 0.04                    | 19.1  | 30                 | 200                   |
| TLZ22B   | 22B          | 20.64               | 21.71 | 5            | 0.5       | 0.04                    | 19.6  | 30                 | 200                   |
| TLZ22C   | 22C          | 21.08               | 22.17 | 5            | 0.5       | 0.04                    | 20    | 30                 | 200                   |
| TLZ22D   | 22D          | 21.52               | 22.63 | 5            | 0.5       | 0.04                    | 20.4  | 30                 | 200                   |
| TLZ24A   | 24A          | 22.05               | 23.18 | 5            | 0.5       | 0.04                    | 20.9  | 35                 | 200                   |
| TLZ24B   | 24B          | 22.61               | 23.77 | 5            | 0.5       | 0.04                    | 21.5  | 35                 | 200                   |
| TLZ24C   | 24C          | 23.12               | 24.31 | 5            | 0.5       | 0.04                    | 22    | 35                 | 200                   |
| TLZ24D   | 24D          | 23.63               | 24.85 | 5            | 0.5       | 0.04                    | 22.4  | 35                 | 200                   |
| TLZ27A   | 27A          | 24.26               | 25.52 | 5            | 0.5       | 0.04                    | 23    | 45                 | 250                   |
| TLZ27B   | 27B          | 24.97               | 26.26 | 5            | 0.5       | 0.04                    | 23.7  | 45                 | 250                   |
| TLZ27C   | 27C          | 25.63               | 26.95 | 5            | 0.5       | 0.04                    | 24.3  | 45                 | 250                   |
| TLZ27D   | 27D          | 26.29               | 27.64 | 5            | 0.5       | 0.04                    | 25    | 45                 | 250                   |
| TLZ30A   | 30A          | 26.99               | 28.39 | 5            | 0.5       | 0.04                    | 25.6  | 55                 | 250                   |
| TLZ30B   | 30B          | 27.7                | 29.13 | 5            | 0.5       | 0.04                    | 26.3  | 55                 | 250                   |
| TLZ30C   | 30C          | 28.36               | 29.82 | 5            | 0.5       | 0.04                    | 26.9  | 55                 | 250                   |
| TLZ30D   | 30D          | 29.02               | 30.51 | 5            | 0.5       | 0.04                    | 27.6  | 55                 | 250                   |
| TLZ33A   | 33A          | 29.68               | 31.22 | 5            | 0.5       | 0.04                    | 28.2  | 65                 | 250                   |
| TLZ33B   | 33B          | 30.32               | 31.88 | 5            | 0.5       | 0.04                    | 28.8  | 65                 | 250                   |
| TLZ33C   | 33C          | 30.9                | 32.5  | 5            | 0.5       | 0.04                    | 29.4  | 65                 | 250                   |
| TLZ33D   | 33D          | 31.49               | 33.11 | 5            | 0.5       | 0.04                    | 29.9  | 65                 | 250                   |
| TLZ36A   | 36A          | 32.14               | 33.79 | 5            | 0.5       | 0.04                    | 30.5  | 75                 | 250                   |
| TLZ36B   | 36B          | 32.79               | 34.49 | 5            | 0.5       | 0.04                    | 31.2  | 75                 | 250                   |
| TLZ36C   | 36C          | 33.4                | 35.13 | 5            | 0.5       | 0.04                    | 31.7  | 75                 | 250                   |
| TLZ36D   | 36D          | 34.01               | 35.77 | 5            | 0.5       | 0.04                    | 32.3  | 75                 | 250                   |



| ELECTRICAL CHARACTERISTICS (T <sub>amb</sub> = 25 °C, unless otherwise specified) |              |                                    |       |                  |                  |                                  |      |                                    |                                     |
|---|--------------|------------------------------------|-------|------------------|------------------|----------------------------------|------|------------------------------------|-------------------------------------|
| PART NUMBER   | MARKING CODE | ZENER VOLTAGE RANGE                |       | TEST CURRENT     |                  | REVERSE LEAKAGE CURRENT          |      | DYNAMIC RESISTANCE                 |                                     |
|   |              | V <sub>Z</sub> at I <sub>ZT1</sub> |       | I <sub>ZT1</sub> | I <sub>ZT2</sub> | I <sub>R</sub> at V <sub>R</sub> |      | Z <sub>Z</sub> at I <sub>ZT1</sub> | Z <sub>ZK</sub> at I <sub>ZT2</sub> |
|   |              | V                                  |       | mA               |                  | μA                               | V    | Ω                                  |                                     |
|   |              | MIN.                               | MAX.  |                  |                  | MAX.                             |      | MAX.                               | MAX.                                |
| TLZ39A  | 39A          | 34.68                              | 36.47 | 5                | 0.5              | 0.04                             | 32.9 | 85                                 | 250                                 |
| TLZ39B  | 39B          | 35.36                              | 37.19 | 5                | 0.5              | 0.04                             | 33.6 | 85                                 | 250                                 |
| TLZ39C  | 39C          | 36                                 | 37.85 | 5                | 0.5              | 0.04                             | 34.2 | 85                                 | 250                                 |
| TLZ39D  | 39D          | 36.63                              | 38.52 | 5                | 0.5              | 0.04                             | 34.8 | 85                                 | 250                                 |
| TLZ39E  | 39E          | 37.36                              | 39.29 | 5                | 0.5              | 0.04                             | 35.5 | 85                                 | 250                                 |
| TLZ39F  | 39F          | 38.14                              | 40.11 | 5                | 0.5              | 0.04                             | 36.2 | 85                                 | 250                                 |
| TLZ39G  | 39G          | 38.94                              | 40.8  | 5                | 0.5              | 0.04                             | 37   | 85                                 | 250                                 |
| TLZ43   | 43           | 40                                 | 45    | 5                | -                | 0.04                             | 38   | 90                                 | -                                   |
| TLZ47   | 47           | 44                                 | 49    | 5                | -                | 0.04                             | 41.8 | 90                                 | -                                   |
| TLZ51   | 51           | 48                                 | 54    | 5                | -                | 0.04                             | 45.6 | 100                                | -                                   |
| TLZ56   | 56           | 53                                 | 60    | 5                | -                | 0.04                             | 50.4 | 100                                | -                                   |

**BASIC CHARACTERISTICS** (T<sub>amb</sub> = 25 °C, unless otherwise specified)

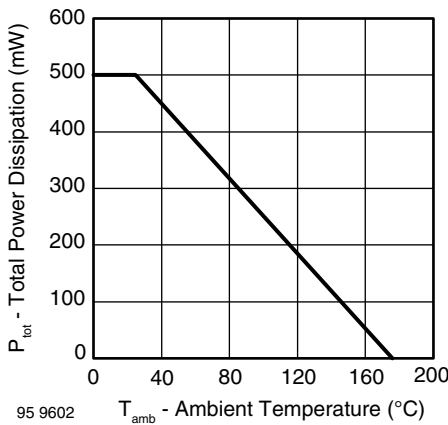


Fig. 1 - Total Power Dissipation vs. Ambient Temperature



Fig. 3 - Typical Change of Working Voltage vs. Junction Temperature



Fig. 2 - Typical Change of Working Voltage under Operating Conditions at T<sub>amb</sub> = 25 °C



Fig. 4 - Temperature Coefficient of V<sub>Z</sub> vs. Z-Voltage



Fig. 5 - Diode Capacitance vs. Z-Voltage



Fig. 8 - Z-Current vs. Z-Voltage



Fig. 6 - Forward Current vs. Forward Voltage



Fig. 9 - Differential Z-Resistance vs. Z-Voltage



Fig. 7 - Z-Current vs. Z-Voltage



Fig. 10 - Thermal Response

**MARKING VOLTAGE GROUP**

**TLZ2V4A**



18660\_2

**Remark**

The Zener voltage group TLZ2V4A is printed with max 3 digits 3 times on the surface. The marking should be readable at minimum 2 times. The third print is allowed to be incomplete due to tolerances in diameter of the glass body.



**PACKAGE DIMENSIONS** in millimeters (inches): **MiniMELF SOD-80**



\* The gap between plug and glass can be either on cathode or anode side

Foot print recommendation:



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96 12070



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## Material Category Policy

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.**

**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.**





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- 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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