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|----------------------------------|---|---|
| SPECIFICATION SHEET NO. | S1225 – DZL4729L00S729 | |
| ORIGINAL MFG/PART NO. |  LGE Diodes/DZL4729-L | |
| NEXTGEN PART CODE | DZL4729L00S729 | Indicate This Code For RFQ /Order |
| DATE | Dec. 25, 2025 | |
| REVISION | A4 | Updated With Most Recent Data |
| DESCRIPTION AND MAIN PARAMETRICS | <p>SMD Zener Diodes 2 Pads, Case SOD-123FL, DZL4 L Series, Zener Voltage (Vz) 3.6V Nom. Power Dissipation at Ta=25°C: 1.0 Watts. Operating Junction Temperature Range (TJ) +150°C Package in Tape/Reel, 3000pcs/Reel RoHS/RoHS III compliant, RoHS Annex III lead Exemption (Exempt per RoHS EU 2015/863) and Halogen Free (HF)</p> | |
| CUSTOMER | | |
| CUSTOMER PART NUMBER | | |
| CROSS REF. PART NUMBER | | |
| MEMO | | |

| | | | |
|-------------------------------|---|--|---|
| VENDOR APPROVE | | | |
| Issued/Checked/Approved |  |  |  |
| Effective Date: Dec. 25, 2025 | | | |

| | |
|-------------------------|--|
| CUSTOMER APPROVE | |
| | |
| Date: | |

MAIN FEATURE

- For Surface Mounted Applications In Order To Optimize Board Space.
- Low Profile Space.
- Glass Passivated Chip.
- High Reliability.
- For Use In Stabilizing And Clipping Circuits With High Power Rating.
- Meet MSL 1 Requirement
- Component in accordance to WEEE 2002/95/EC and WEEE 2002/96/EC.
- Cross Competitors Parts and More.
- RoHS/RoHS III compliant, RoHS Annex III lead Exemption (Exempt per RoHS EU 2015/863) and Halogen Free (HF)



Image shown is a representation only. Exact specifications should be obtained from the product dimension.

APPLICATION

- For Voltage Stabilization.

ELECTRICAL CHARACTERISTICS

- See Page 5 ~ Page 7.
- All Products Parameters are Subject To NextGen Components' Final Confirmation.



HOW TO ORDER

- Please Follow Up Part Code Guide And Indicate NextGen Part Code DZL4729L00S729 For RFQ and Order.

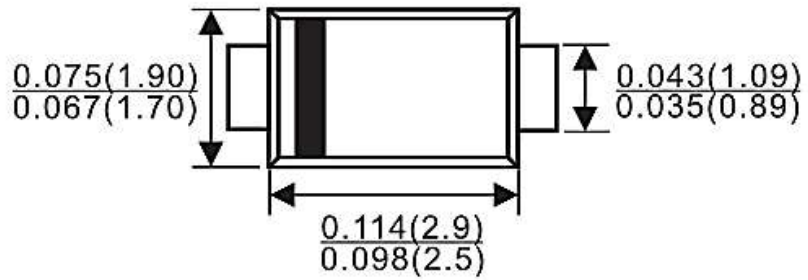
PART CODE GUIDE

RFQ
[Request For Quotation](#)

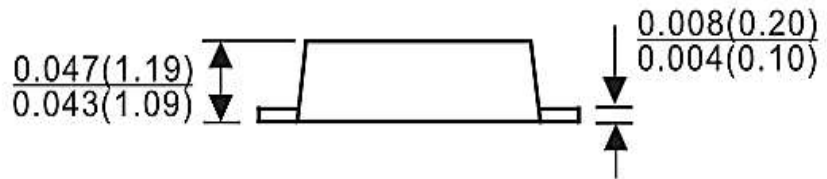
| CODE | NAME | KEY SPECIFICATION OPTION |
|------|---------------------------|--|
| DZL4 | Product Series Code | SMD Zener Diodes 2Pads, Case SOD-123FL, DZL4 L Series |
| 729 | Parameters Code | Letter or Digits (A~Z, a~z or 0~9) |
| L00S | Internal Control Code | Letter A~Z, a-z or Digits (0-9) |
| 729 | Marking Code | Marking "729" |
| XX | Special/Custom Parameters | Blank: N/A; XX: Letter A~Z, a~z or digits (0~9) for Special/Custom Parameters |

DIMENSION -- Unit: Inch (mm), Case SOD-123FL Outline

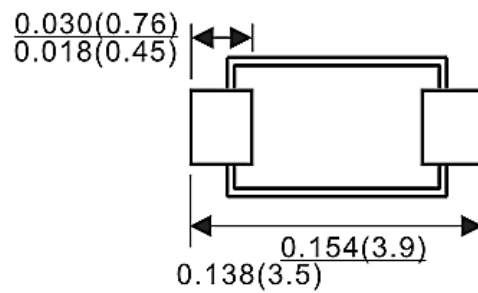
Top View



Side View



Bottom View



MECHANICAL CHARACTERISTICS

| CASE | TERMINALS | POLARITY | MOUNTING POSITION | WEIGHT |
|--|---|--------------------------------|-------------------|------------|
| JEDEC SOD-123FL Molded Plastic Body Over Passivated Chip | Solder Plated, Solderable per MIL-STD-750 Method 2026 | Laser Band Denotes Cathode End | Any | 0.017 Gram |

MAX. RATINGS & ELECTRICAL CHARACTERISTICS

- Ratings at 25 °C ambient temperature unless otherwise specified.

| Parameter | SYMBOLS | VALUE | UNITS |
|--|------------------|------------|-------|
| Power Dissipation | P _D | 1.0 | W |
| Typical Thermal Resistance Junction To Ambient | R _{θJA} | 55 | °C/W |
| Typical Thermal Resistance Junction To Lead | R _{θJL} | - | °C/W |
| Operating Junction Temperature Range | T _J | 150 | °C |
| Storage Temperature Range | T _{stg} | -55 ~ +150 | °C |

ELECTRICAL CHARACTERISTICS - Ta=25°C unless otherwise specified

| Part Code | Zener Voltage Range V _{ZT} @ I _{ZT} (V) | | | Test Current I _{ZT} (mA) | Zener Impedance | | | Leakage Current | | Marking Code |
|--------------------------------|---|-----|-------|--|---|----------------------------------|------|--------------------------------|----------------------------|-----------------|
| | Min. | Nom | Max. | | Z _{ZT} @ I _{ZT} (Ω) | Z _{ZK} @I _{ZK} | | Max. I _R (μA) | @ V _R (V) | |
| | | | | | | (Ω) | mA | | | |
| DZL4728L00S728 | 3.13 | 3.3 | 3.47 | 76 | 10 | 400 | 1.0 | 100 | 1.0 | 728 |
| DZL4729L00S729 | 3.42 | 3.6 | 3.78 | 69 | 10 | 400 | 1.0 | 100 | 1.0 | 729 |
| DZL4730L00S730 | 3.70 | 3.9 | 4.10 | 64 | 9 | 400 | 1.0 | 50 | 1.0 | 730 |
| DZL4731L00S731 | 4.08 | 4.3 | 4.52 | 58 | 9 | 400 | 1.0 | 50 | 1.0 | 731 |
| DZL4732L00S732 | 4.46 | 4.7 | 4.94 | 53 | 8 | 500 | 1.0 | 10 | 1.0 | 732 |
| DZL4733L00S733 | 4.84 | 5.1 | 5.36 | 49 | 7 | 550 | 1.0 | 10 | 1.0 | 733 |
| DZL4734L00S734 | 5.32 | 5.6 | 5.88 | 45 | 5 | 600 | 1.0 | 10 | 2.0 | 734 |
| DZL4735L00S735 | 5.89 | 6.2 | 6.51 | 41 | 2 | 700 | 1.0 | 10 | 3.0 | 735 |
| DZL4736L00S736 | 6.46 | 6.8 | 7.14 | 37 | 3.5 | 700 | 1.0 | 10 | 4.0 | 736 |
| DZL4737L00S737 | 7.12 | 7.5 | 7.88 | 34 | 4 | 700 | 0.5 | 10 | 5.0 | 737 |
| DZL4738L00S738 | 7.79 | 8.2 | 8.61 | 31 | 4.5 | 700 | 0.5 | 10 | 6.0 | 738 |
| DZL4739L00S739 | 8.64 | 9.1 | 9.56 | 28 | 5 | 700 | 0.5 | 10 | 7.0 | 739 |
| DZL4740L00S740 | 9.50 | 10 | 10.50 | 25 | 7 | 700 | 0.25 | 10 | 7.6 | 740 |
| DZL4741L00S741 | 10.45 | 11 | 11.55 | 23 | 8 | 700 | 0.25 | 5 | 8.4 | 741 |
| DZL4742L00S742 | 11.40 | 12 | 12.60 | 21 | 9 | 700 | 0.25 | 5 | 9.1 | 742 |
| DZL4743L00S743 | 12.35 | 13 | 13.65 | 19 | 10 | 700 | 0.25 | 5 | 9.9 | 743 |
| DZL4744L00S744 | 14.25 | 15 | 15.75 | 17 | 14 | 700 | 0.25 | 5 | 11.4 | 744 |
| DZL4745L00S745 | 15.20 | 16 | 16.80 | 15.5 | 16 | 700 | 0.25 | 5 | 12.2 | 745 |
| DZL4746L00S746 | 17.10 | 18 | 18.90 | 14 | 20 | 750 | 0.25 | 5 | 13.7 | 746 |
| DZL4747L00S747 | 19.00 | 20 | 21.00 | 12.5 | 22 | 750 | 0.25 | 5 | 15.2 | 747 |

ELECTRICAL CHARACTERISTICS - Ta=25°C unless otherwise specified

| Part Code | Zener Voltage Range V _{ZT} @ I _{ZT} (V) | | | Test Current I _{ZT} (mA) | Zener Impedance | | | Leakage Current | | Marking Code |
|----------------|---|-----|--------|---|---|----------------------------------|------|--------------------------------|----------------------------|--------------|
| | Min. | Nom | Max. | | Z _{ZT} @ I _{ZT} (Ω) | Z _{ZK} @I _{ZK} | | Max. I _R (μA) | @ V _R (V) | |
| | | | | | | (Ω) | mA | | | |
| DZL4748L00S748 | 20.90 | 22 | 23.10 | 11.5 | 23 | 750 | 0.25 | 5 | 16.7 | 748 |
| DZL4749L00S749 | 22.80 | 24 | 25.20 | 10.5 | 25 | 750 | 0.25 | 5 | 18.2 | 749 |
| DZL4750L00S750 | 25.65 | 27 | 28.35 | 9.5 | 35 | 750 | 0.25 | 5 | 20.6 | 750 |
| DZL4751L00S751 | 28.50 | 30 | 31.50 | 8.5 | 40 | 1000 | 0.25 | 5 | 22.8 | 751 |
| DZL4752L00S752 | 31.35 | 33 | 34.65 | 7.5 | 45 | 1000 | 0.25 | 5 | 25.1 | 752 |
| DZL4753L00S753 | 34.20 | 36 | 37.80 | 7 | 50 | 1000 | 0.25 | 5 | 27.4 | 753 |
| DZL4754L00S754 | 37.05 | 39 | 40.95 | 6.5 | 60 | 1500 | 0.25 | 5 | 29.7 | 754 |
| DZL4755L00S755 | 40.85 | 43 | 45.15 | 6 | 70 | 1500 | 0.25 | 5 | 32.7 | 755 |
| DZL4756L00S756 | 44.65 | 47 | 49.35 | 5.5 | 80 | 1500 | 0.25 | 5 | 35.8 | 756 |
| DZL4757L00S757 | 48.45 | 51 | 53.55 | 5 | 95 | 1500 | 0.25 | 5 | 38.8 | 757 |
| DZL4758L00S758 | 53.20 | 56 | 58.80 | 4.5 | 110 | 2000 | 0.25 | 5 | 42.6 | 758 |
| DZL4759L00S759 | 58.90 | 62 | 65.10 | 4 | 125 | 2000 | 0.25 | 5 | 47.1 | 759 |
| DZL4760L00S760 | 64.60 | 68 | 71.40 | 3.7 | 150 | 2000 | 0.25 | 5 | 51.7 | 760 |
| DZL4761L00S761 | 71.25 | 75 | 78.75 | 3.3 | 175 | 2000 | 0.25 | 5 | 56.0 | 761 |
| DZL4762L00S762 | 77.90 | 82 | 86.10 | 3 | 200 | 3000 | 0.25 | 5 | 62.2 | 762 |
| DZL4763L00S763 | 86.45 | 91 | 95.55 | 2.8 | 250 | 3000 | 0.25 | 5 | 69.2 | 763 |
| DZL4764L00S764 | 95.00 | 100 | 105.00 | 2.5 | 350 | 3000 | 0.25 | 5 | 76.0 | 764 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

CHARACTERISTICS CURVES- For Reference Only, Ta=25°C Unless Otherwise Specified.

Fig. 1
POWER TEMPERATURE
DERATING CURVE

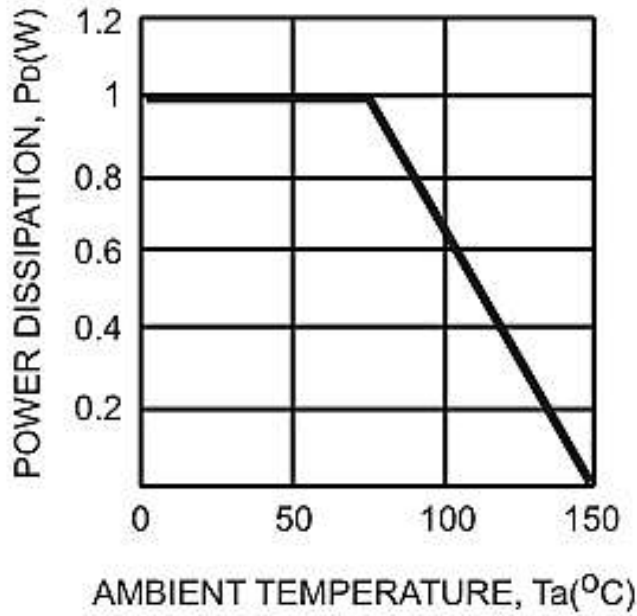
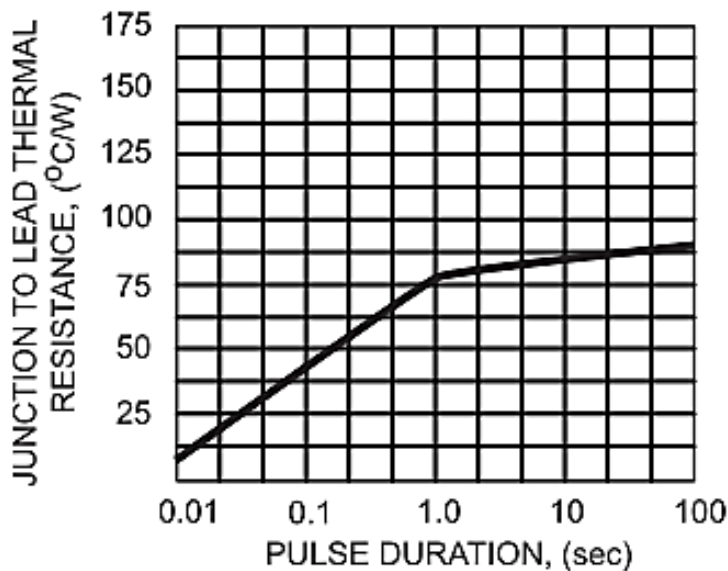
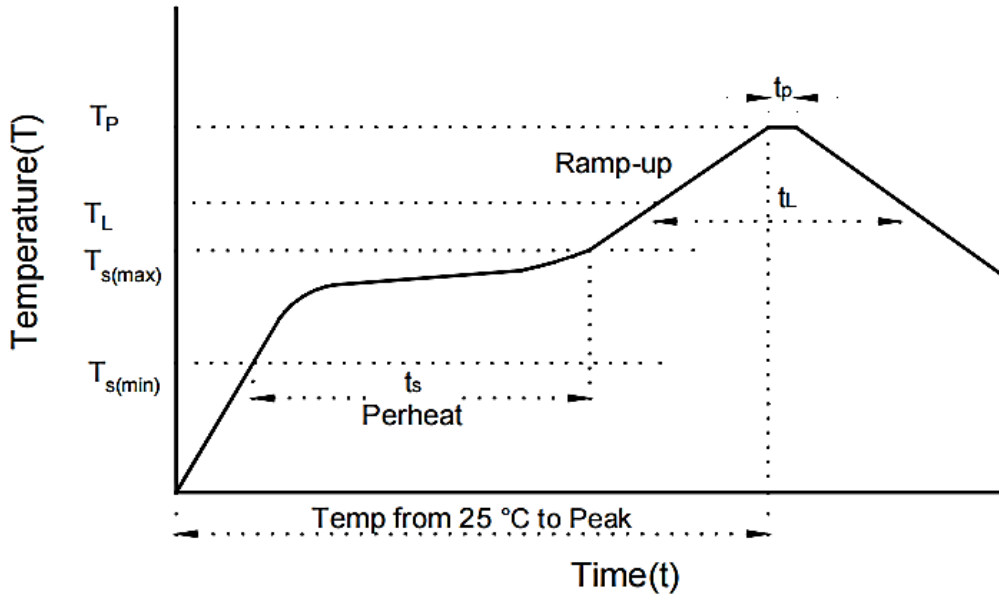


Fig. 2
TYPICAL THERMAL RESISTANCE
VERSUS LEAD LENGTH

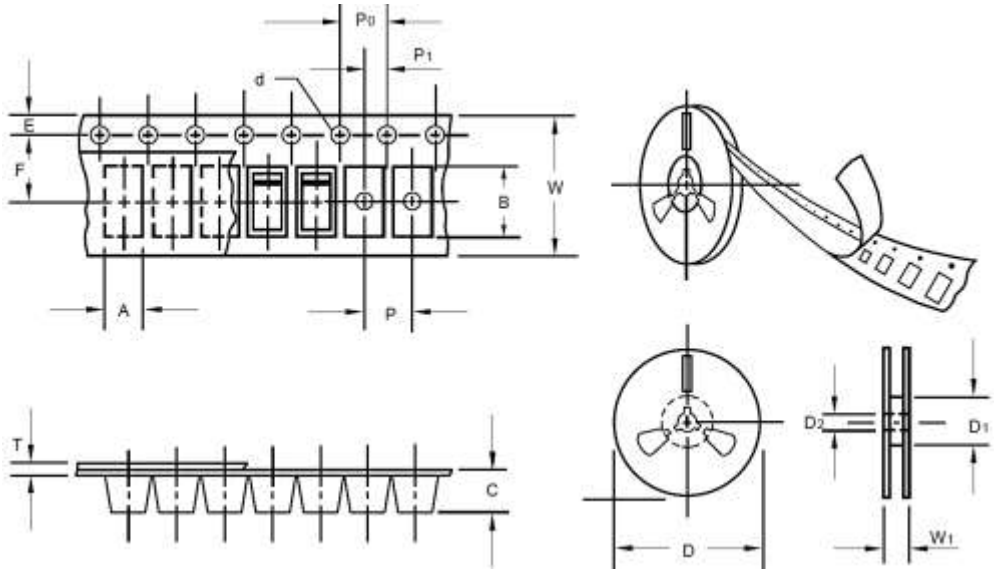


SUGGESTED REFLOW PROFILE - For Reference Only



| PROFILE FEATURE | | PB-FREE ASSEMBLY |
|--|----------------------------------|-------------------|
| Average Ramp-up Rate (T_L Max to T_p) | | 3°C/second Max |
| Preheat | Temperature Min (T_s Min.) | 150°C |
| | Temperature Max (T_s Max.) | 200°C |
| | Time (t_s Min. to t_s Max.) | 60 ~ 180 seconds |
| Time maintained above | Temperature (T_l) | 217°C |
| | Time (t_l) | 60 ~ 150 seconds |
| Peak/Classification Temperature (T_p) | | 260 °C |
| Time within 5°C of actual Peak Temperature (t_p) | | 10 seconds Max. |
| Ramp-down Rate | | 6 °C /Second Max. |
| Time 25 °C to Peak Temperature | | 8 Minutes Max. |
| Suggest reflow times | | 3 Times Max. |

TAPE/REEL - Unit: mm, All Devices are packed in accordance with EIA standard RS-481-A and specifications



| ITEM | SYMBOL | TOLERANCE | SOD-123FL |
|-------------------------|--------|-----------|-----------|
| Carrier width | A | 0.1 | 2.1 |
| Carrier Length | B | 0.1 | 4.0 |
| Carrier Depth | C | 0.1 | 1.60 |
| Sprocket hole | d | 0.05 | 1.55 |
| 7"Reel outside diameter | D | 2 | 178 |
| 7"Reel inner diameter | D1 | Min. | 50.0 |
| Feed hole diameter | D2 | 0.5 | 13 |
| Sprocket hole position | E | 0.1 | 1.75 |
| Punch hole position | F | 0.1 | 3.5 |
| Punch hole pitch | P | 0.1 | 4 |
| Sprocket hole pitch | P0 | 0.1 | 4 |
| Embossment center | P1 | 0.1 | 2 |
| Overall tape thickness | T | 0.1 | 0.25 |
| Tape width | W | 0.3 | 8.15 |
| Reel width | W1 | 1 | 10.5 |
| Qty. Per Reel (pcs) | | 3000 | |

IMPORTANT NOTES AND DISCLAIMER

1. **ROHS COMPLIANCE:** The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU RoHS Directive (EU) 2015/863 EC (RoHS3). RoHS Test Report for this product can be obtained at Download Center.
2. **REACH COMPLIANCE:** REACH substances of high concern (SVHCs) information is available for this product. Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, REACH Test Report for this product can be obtained at Download Center.
3. All Product parametric performance is indicated in the Electrical Characteristics for the listed herein test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
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8. *NextGen* requires that customers first obtain an RMA (Returned Merchandise Authorization) number prior to returning any products. Returns must be made within 30 days of the date of invoice, be in the original packaging, unused and like-new condition. At the time of quoting or purchasing, a product may say that it is Non-Cancelable/ Non-Returnable (NCNR). These products are not returnable and not refundable.