

LVA47C THRU LVA100C

SILICON ZENER DIODE
4.7 VOLTS THRU 10 VOLTS
400mW, 1% TOLERANCE

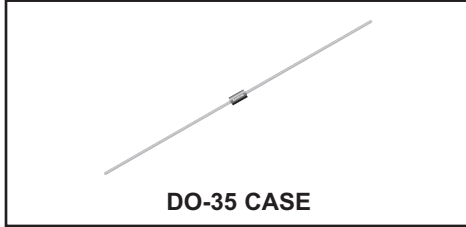


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR LVA47C series silicon Zener diode is a high quality voltage regulator designed for low voltage, ultra sharp knee applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Power Dissipation

Operating and Storage Junction Temperature

SYMBOL

P_D

T_J, T_{stg}

400

-65 to +175

UNITS

mW

$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.5\text{V MAX @ } I_F=200\text{mA}$ (for all types)

| TYPE | ZENER VOLTAGE $V_Z @ I_{ZT}$ | | | TEST CURRENT | MAXIMUM ZENER IMPEDANCE | MAXIMUM REVERSE CURRENT | | MAXIMUM NOISE DENSITY |
|---------|---------------------------------|------|-------|--------------|-------------------------|-------------------------|-----|--------------------------------|
| | MIN | NOM | MAX | I_{ZT} | $Z_{ZT} @ I_{ZT}$ | $I_R @ V_R$ | | $N_D @ 250\mu\text{A}$ |
| | V | V | V | mA | Ω | μA | V | $\mu\text{V}/\sqrt{\text{Hz}}$ |
| LVA47C | 4.653 | 4.7 | 4.747 | 10 | 15 | 4.0 | 2.0 | 4.0 |
| LVA51C | 5.049 | 5.1 | 5.151 | 5.0 | 15 | 0.1 | 2.0 | 4.0 |
| LVA56C | 5.544 | 5.6 | 5.656 | 1.0 | 40 | 0.05 | 3.0 | 4.0 |
| LVA62C | 6.138 | 6.2 | 6.262 | 1.0 | 50 | 0.05 | 4.0 | 4.0 |
| LVA68C | 6.732 | 6.8 | 6.868 | 1.0 | 50 | 0.05 | 5.0 | 4.0 |
| LVA75C | 7.425 | 7.5 | 7.575 | 1.0 | 100 | 0.01 | 6.0 | 4.0 |
| LVA82C | 8.118 | 8.2 | 8.282 | 1.0 | 100 | 0.01 | 6.5 | 4.0 |
| LVA91C | 9.009 | 9.1 | 9.191 | 1.0 | 100 | 0.01 | 8.0 | 4.0 |
| LVA100C | 9.900 | 10.0 | 10.10 | 1.0 | 100 | 0.01 | 9.0 | 4.0 |

R0 (18-September 2012)

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DO-35 CASE - MECHANICAL OUTLINE



R1

| SYMBOL | INCHES | | MILLIMETERS | |
|--------|--------|-------|-------------|------|
| | MIN | MAX | MIN | MAX |
| A | 0.018 | 0.022 | 0.46 | 0.56 |
| B | 0.120 | 0.200 | 3.05 | 5.08 |
| C | 0.060 | 0.090 | 1.52 | 2.29 |
| D | 1.000 | - | 25.40 | - |

DO-35 (REV: R1)

MARKING: FULL PART NUMBER

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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