

LVA47A THRU LVA100A

SILICON ZENER DIODE
4.7 VOLTS THRU 10 VOLTS
400mW, 5% TOLERANCE

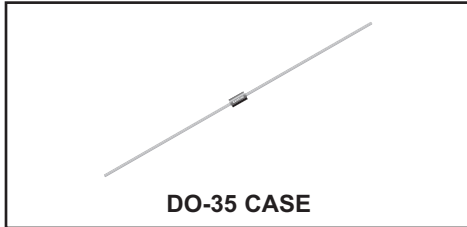


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR LVA47A series silicon Zener diode is a high quality voltage regulator designed for low voltage, ultra sharp knee applications.

MARKING: FULL PART NUMBER



DO-35 CASE

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)

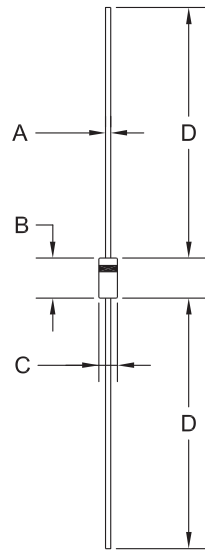
TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT		MAXIMUM NOISE DENSITY
	MIN	NOM	MAX	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$I_R @ V_R$		$N_D @ 250\mu\text{A}$
	V	V	V	mA	Ω	μA	V	$\mu\text{V}/\sqrt{\text{Hz}}$
LVA47A	4.465	4.7	4.935	10	15	4.0	2.0	4.0
LVA51A	4.845	5.1	5.355	5.0	15	0.1	2.0	4.0
LVA56A	5.320	5.6	5.880	1.0	40	0.05	3.0	4.0
LVA62A	5.890	6.2	6.510	1.0	50	0.05	4.0	4.0
LVA68A	6.460	6.8	7.140	1.0	50	0.05	5.0	4.0
LVA75A	7.125	7.5	7.875	1.0	100	0.01	6.0	4.0
LVA82A	7.790	8.2	8.610	1.0	100	0.01	6.5	4.0
LVA91A	8.645	9.1	9.555	1.0	100	0.01	8.0	4.0
LVA100A	9.500	10	10.50	1.0	100	0.01	9.0	4.0

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400mW, 5% TOLERANCE



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

R1 (18-September 2012)

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).

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