

Radiation hardened high voltage rectifier diode

Type LD1K202-LCC2

Services

- Microelectronic packaging technologies
- Sealed power components such as power transistors or circuits integrated as power modules
- Modern cleanroom manufacturing facilities
- Quality management system according to EN 9100 and EN ISO 13485

Certificates

First Sensor Lewicki GmbH is certified as Assembly- and Test-House for power MOSFETs since July 2014 by the German Aerospace Center (DLR) to build up, encapsulate and screen power semiconductors for space applications.

The assembly of high voltage diodes is currently under qualification according to the ESCC5000 standard.



Case dimensions

Parameters	Value
Length	5.8 mm
Width	3.8 mm
Height (incl. lid)	2.7 mm

Maximum ratings

Parameters	Value
Working reverse voltage	1200 V
Breakdown voltage	1400 V
Surge current	30 A
Operating temperature	-55 °C to 150 °C
TID radiation hardness	8000 krad

Technical parameters

Parameters	Value
Forward voltage	< 2.0 V @ 750 mA
Leakage current	< 10 µA @ 1200 V
Breakdown voltage	> 1400 V @ 50 µA
Thermal impedance	< 20 K/W
Thermal resistance	< 6.5 K/W
Reverse recovery time	< 75 ns*

*If = 250 mA, I_{rr} = 0.25 I_r, dI/dt = 75A/µs

Aluminiumnitride (AlN) LCC2 package fits popular D-5B MELF packages

About First Sensor Lewicki GmbH

First Sensor Lewicki GmbH was founded in 1967. As a specialist for hybrid circuits and considerably influenced by space applications from the start, the company soon established itself as a pioneer of thick-film circuits in space and aerospace technology, defense technology, safety technology, medical technology, and industrial electronics. First Sensor Lewicki hybrid circuits are synonymous with highly reliable electronics and are used throughout the world. The technological spectrum includes all electronic packaging technologies for components and circuits as well as various in-house screening capabilities.

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