



5.0SMDJxxS-HRA series

High Reliability TVS Diode
Surface Mount – 5000W
DO-214AB



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5.0SMDJxxS-HRA High-Reliability TVS Diode Series

5000W Surface-Mountable DO-214AB Package

Problem/Solution

The 5.0SMDJxxS-HRA is a highly reliable TVS diode series developed for aircraft subsystems. They protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events. Littelfuse manufactures these high-reliability TVS diodes using a stringent process for up-screening electronic components that ensures enhanced robustness. They are available in a surface-mounted package with a high power density of up to 5 kW.

Technical resources (Click on below icons to learn more)



Series Page



Datasheet



Marketing
Flyer

Screen Process

100% Vision Inspection	MIL-STD-750 method 2074
100% High Temperature Storage Life (168hrs, 175°C)	MIL-STD-750 method 1031
100% X-RAY inspection	MIL-STD-750 method 2076
100% Temperature Cycle Test (-55 to 150°C, 20 cycles, dwell time 15 min)	MIL-STD-750 method 1051
100% Reflow (2X)	JEDEC J-STD-020
100% Surge Test (2x)	MIL-STD-750 method 4066
100% HTRB 150°C Bias= V_R (80% breakdown voltage, 96hrs, and each direction 96hrs for Bi-directional products)	MIL-STD-750 method 1038
Final Electrical Test(100% 3 sigma limit, 100% dynamic test and PAT limit)	MIL-STD-750 method 4016.4021.4011



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Benefits

- Up-screened to provide high reliability for avionics applications
- JEDEC standard DO-214AB surface mount package
- Higher power density to 5 kW

Feature

- 5000 W peak pulse power capability at 10/1000 μ s waveform
- DO-214AB (SMC) package
- High-reliability devices with fabrication and assembly lots traceability
- DO-160 lightning protection specified (data available by request)



Markets/Applications

- Avionics / aircraft subsystems
- Industrial applications
- Harsh environment application
- DC power line protection



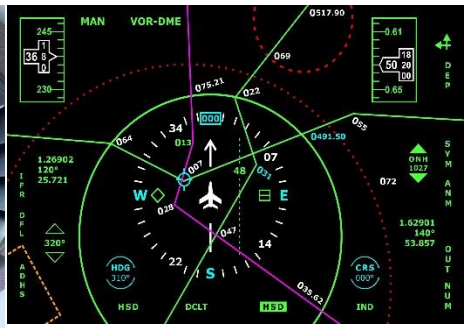
Mission Critical Applications for High Reliability TVS Diodes



Fly-by-wire flight control



Engine control



Radar system



Electronic equipment in pilot cabin



Advanced airborne digital computer



Power supply/ Distribution system AC/DC or DC/DC



Cockpit Displays

Pricing, samples, availability and contacts

Pricing and samples

Please contact Littelfuse product management and sales representatives for pricing and samples availability.

Product availability

Production lead-time

30 Weeks

Packaging

Tape & Reel - 16mm tape/13" and 7" reel (DO-214AB)

Contact details

Product Manager

Charlie Cai

ccai@littelfuse.com

Asst. Product Manager

Cathy Wu

cwu4@littelfuse.com

Product Engineer

Jane Xu

jxu@littelfuse.com

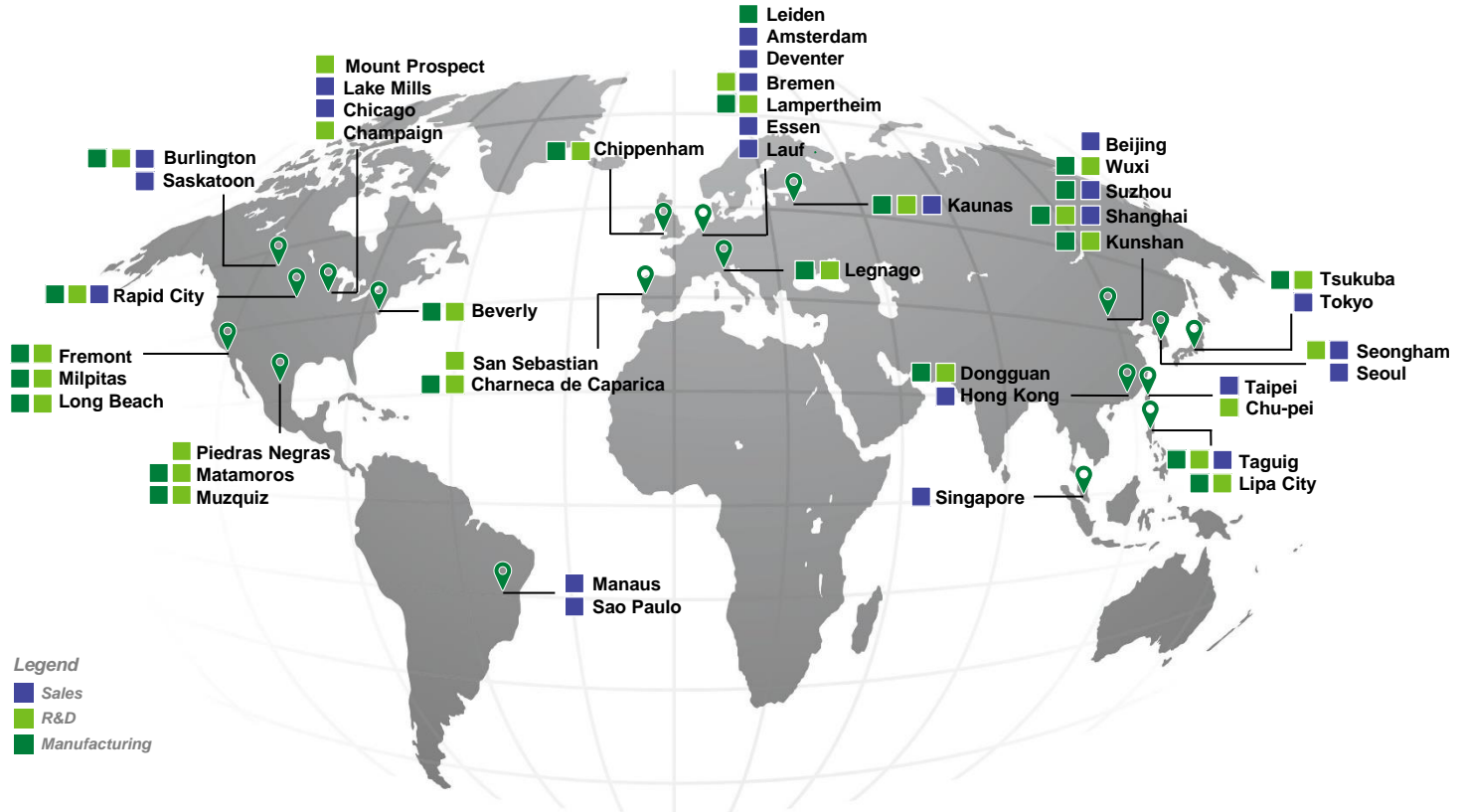
Sales tools, technical support and keywords

- **Current datasheets are available on www.littelfuse.com.**
 - Enter 5.0SMDJxxS-HRA in the search box.

- **Application and Technical Support: 1-800-999-9445**

- **Suggested Keywords**
 - 5.0SMDJxxS-HRA
 - High Reliability TVS Diode
 - Avionics
 - Industrial Application
 - Harsh Environment Application
 - DC Power Line Protection
 - 5000W Surface Mount DO-214AB Package
 - Cockpit Displays
 - Electronic Equipment in Pilot Cabin

Local resources for a global market



Legend

- Sales
- R&D
- Manufacturing



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