



Solid State Devices Inc

United States · founded 1967 · ssdi-power.com

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as of 20 August 2026



Solid State Devices Inc

Solid State Devices, Inc. (SSDI) is a JANS-certified and AS9100-registered manufacturer of high-power and high-voltage semiconductors and electronic assemblies for aerospace, defence, and space applications, headquartered in La Mirada, California. Founded in 1967, the company has over 55 years of experience pioneering hermetic semiconductor manufacturing and has earned a reputation for setting the highest standards of reliability, power density, and performance. SSS pursues its '3H Products' philosophy — High Density, High Performance, High Reliability — continuously evaluating materials, processes, and package designs to reduce footprint and weight while leveraging the latest technology. Approximately 96% of SSDI's sales support Aerospace and Defence programs including satellites, manned spacecraft, launch vehicles, fixed-wing military aircraft, rotorcraft, and maritime/undersea systems. SSSD holds a strategic market role by focusing on high-reliability (HiRel) products that competitors are unable or unwilling to supply, and by developing End of Life (EOL) and Diminishing Manufacturing Sources (DMS) solutions when other manufacturers obsolete products. Notable space programme contributions include the NASA Artemis II mission — where SSDI components flew on both the Orion spacecraft and SLS launch vehicle, travelling over 248,000 miles from Earth — including rectifiers, Schottky diodes, SiC MOSFETs, Zener diodes, TVS devices, and radiation detector PIN diodes. SSSD's product portfolio spans 16 categories: rectifiers, Schottkys and SiC Schottkys, bridge rectifiers, Zeners, TVS devices, Thyristors/SCRs, SiC MOSFETs, JFETs, IGBTs, Gallium Nitride (GaN) Power FETs, transistors, IC/voltage regulators, power modules, power hybrids, high-voltage assemblies, and specialty ra

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SERVICES

Services

Engineering / Manufacturing / Quality Review

SSDI provides an initial discussion and assessment to determine how best to fulfill customer product needs, covering electrical parameters, testing, and packaging.

Sustainment Solutions – Insertion of New / Improved Technologies

SSDI integrates new and improved technologies, modified for form, fit, and function, to solve reliability and performance problems in older designs.

Sustainment Solutions – Re-Design / Re-Manufacture

SSDI offers re-design and re-manufacturing services for semiconductor devices, combining their expertise in device performance, design, and foundry relationships.

Sustainment Solutions – Substitute Die / Package

SSDI provides services to select and qualify suitable replacement die or packages for original products, leveraging their knowledge of device performance, design, and application.

Testing / Qualification Capabilities

SSDI offers comprehensive testing and qualification services for semiconductor components and modules to various military and industry standards.

Product catalogue



SOLID STATE DEVICES INC

SFC85N90S2 SiC Power MOSFET

85 A, 900 V, 17 mΩ max hermetically sealed SiC N-channel power MOSFET with 100 kRad total dose tolerance. Radiation-tolerant drop-in replacement for silicon MOSFETs.

Drain-source voltage (Vdss)	900 V
Continuous drain current (Id)	85 A
On-resistance (Rds_on) typical	10 mΩ
On-resistance (Rds_on) maximum	17 mΩ
Power dissipation (Pd)	288 W
Total dose radiation tolerance	100 kRad
Channel polarity	N-Channel Enhancement Mode

price on request



SOLID STATE DEVICES INC

SFH06055-20 High Side Power Switch

20 A, 60 V, 55 mΩ radiation-tolerant hermetic high-side power switch in LCC20 ceramic surface-mount package with logic-level input.

Continuous drain current (Id)	20 A
Drain-source voltage (Vdss)	60 V
On-resistance (Rds_on)	55 mΩ
Input	Logic level input voltage
Protection	Zener-protected gate, radiation tolerant
Package	LCC20 (hermetically sealed ceramic surface mount)
Screening	TX, TXV, Space (S-level)

price on request

Contact Solid State Devices Inc

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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