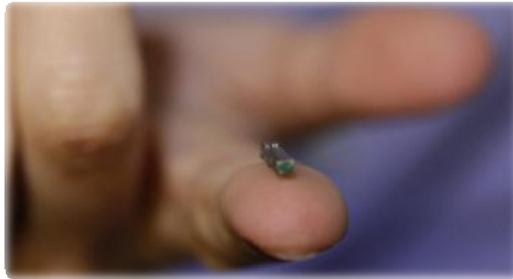


# **SENSITRON**

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## **SEMICONDUCTOR**

*Powered by Sensitron*



# **MEDICAL PRODUCT TECHNOLOGIES**

Sensitron Semiconductor · 221 West Industry Court · Deer Park, NY 11729-4681  
Phone (631) 586 7600 · Fax (631) 242 9798 · [www.sensitron.com](http://www.sensitron.com) · [sales@sensitron.com](mailto:sales@sensitron.com)

### **Over 40 Years Heritage in Hi-Reliability**

#### **Quality, Reliability, and Commitment**

- ✓ More than 40 years heritage in the high reliability market and nearly ten years supporting the implantable market
- ✓ Product life cycles extended due to commitment to process and product
- ✓ Continued investment in advanced production equipment
- ✓ Traceability to wafer lot or single wafer, meeting the special needs of medical applications
- ✓ LAT testing performed on each lot
- ✓ Reliability and failure analysis lab
- ✓ Advanced packaging with custom die development for high volume applications
- ✓ Product Certifications including: AS9100, Revision C Registered, ISO 9001:2000 Registered, MIL-PRF-19500 JANS Qualified

#### **Die Services**

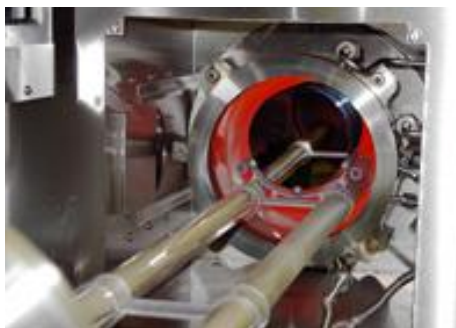
- ✓ MIL-STD-883 (or MIL-STD-750) Visual Inspection
- ✓ Process Change Control
- ✓ Electrical Probing
- ✓ Dicing
- ✓ Waffle Packaging
- ✓ LAT/Element Evaluation Sample Preparation and LAT/Element Evaluation Testing
- ✓ Wafer Lot (or single wafer) traceability
- ✓ Molybdenum Tab/ Disc-Die-Disc Assembly

#### **Sensitron's Value Proposition**

- ✓ JANS and major medical customer approvals with extensive production heritage
- ✓ Focus on, and commitment to, the High Reliability market segment
- ✓ Stable wafer fabrication facility
- ✓ Broad diode standard product portfolio
- ✓ Custom die development for high volume applications and/or core customers



**Aligner**



**Diffusion Furnace**



**Evaporator**

## Medical Power Management Portfolio of Products

### Product Offering and Capabilities

#### Rectifiers

- Up to 1500V PIV
- General Purpose, Fast Recovery, Ultrafast Recovery
- Schottky

#### Zener Diodes

- 0.5W, 1.5W, 5.0W
- 6.8V to 300V Vz



#### Transient Voltage Suppressors

- 500W, 1500W, 5000W
- 6V to 190V BV

#### Small Signal Switching Diodes

- Fast switching, low capacitance
- Low Leakage

### Preferred Parts List

Part Number						Description
3595						Vf Controlled Diode
3611	3612	3613	3614	3957		1A Std Recovery Rectifier
4099	to	4120				500mW Zener
4245	4246	4247	4248	4249		1A Std Recovery
4460			to	4496		1.5W Zener
4942	4944	4946	4947	4948		1 A Fast Recovery Rectifier
4958	to	4989				5W Zener
5186	5187	5188	5190			3A Fast Recovery Rectifier
5415	5416	5417	5418	5419	5420	3A Fast Recovery Rectifier
5550	5551	5552	5553	5554		3A Std Recovery Rectifier
5614	5616	5618	5620	5622		1A Std Recovery Rectifier
5615	5617	5619	5621	5623		1A Fast Recovery Rectifier
5802	5804	5806				1A Ultra Fast Rectifier
5807	5809	5811				3A Ultra Fast Rectifier
5819	5822					1A, 3A/40V Schottky Rectifier
6103A	to	6136A				500W Bi-directional TVS
6144A	to	6173A				1500W Bi-directional TVS
6324	to	6351				500mW Zener
6620	6621	6622	6623	6624	6625	1A Ultra Fast Rectifier HV Rectifier
6626	6627	6628	6629	6630	6631	2A Ultra Fast Rectifier HV Rectifier
6638	6642	6643				Small Signal Switching Diode
6639	6640	6641				Small Signal Switching Diode



Die Probe Station



Automated Pick and Place



Automated Optical Inspection

## CERTIFICATIONS

- ✓ JANS Certified Diode Line
- ✓ MIL-PRF-19500 for JAN, JANTX, JANTXV
- ✓ MIL-PRF-38534
- ✓ ISO 9001:2008 Edition
- ✓ AS9100C:2009

## JAN QPL & EQUIVALENT DIODES

- ✓ JAN, JANTX, JANTXV & JANS QPL certified diodes and space level equivalent diodes available
- ✓ Parts available in axial or MELF packaging
- ✓ In-house inventory to accommodate short lead times
- ✓ Space equivalent devices are manufactured on the space qualified manufacturing line

**SENSITRON SEMICONDUCTOR**

Part Number:  GO

Product Type:  Select a Product Group GO

Products Support Company My Sensitron Contact Us

**PRODUCT HIGHLIGHT:**  
RF AMPLIFIERS, LIMITERS  
& POWER DIVIDERS

Sensitron has added RF devices to our high reliability product portfolio. The RF Broadband Low Noise Amplifiers and Ultra Flat Gain High Linearity Amplifiers form a core product [more...](#)

**THE POWER BEHIND YOUR SYSTEM**

Sensitron is a leading manufacturer of high reliability power electronic solutions. Markets served include the complete spectrum of high reliability markets including space, aerospace, and defense.

**Discrete Diodes and Die Products**

JANS, JANTX/V, JAN, Diodes, Zener Diodes, TVS Diodes, Power Rectifier Diodes, Schottky Diodes, Small Signal Switching Diodes, Space Level Diodes, Zener Die, TVS Die, Schottky Rectifier Die, [more...](#)

**Motor Controllers and Drivers**

Fully Integrated Motor Controllers with Ethernet, CAN, Discrete or Analog Controls, MOSFET and IGBT Drivers, Three-Phase Brushless DC Motor Control, Field Oriented Controller, [more...](#)

**In The News:**

**March 2013**-Sensitron introduces a lightweight (20oz) all-in-one digital motor controller, EMI filter and heatsink, available in [more...](#)

**November 2012**- Sensitron's Hermetic Custom Hybrid Devices offer the highest performance, excellent package density, and are superior to competing [more...](#)

**Power Rectification**

Schottky Rectifiers, Discrete Power Rectifier Diodes, SiC Schottky Rectifiers and Bridges, Three Phase Bridge Rectifier Assemblies, Primary Power Generation [more...](#)

**Solid State Power Management**

Multi-Channel Solid State Power Controller boards, Remote Power Controllers, High Current / High Voltage Modules, Solid State Power Controller Modules, Solid State Relays [more...](#)

**New Product:**

**SENSITRON SEMICONDUCTOR IS A CERTIFIED JANS FACILITY**

Sensitron has received qualification for various JANS, JANTX/V, JAN QPL Diodes, per MIL-PRF-19500 slash sheets including /228, /286, /359, [more...](#)

Visit online at: [www.sensitron.com](http://www.sensitron.com)