

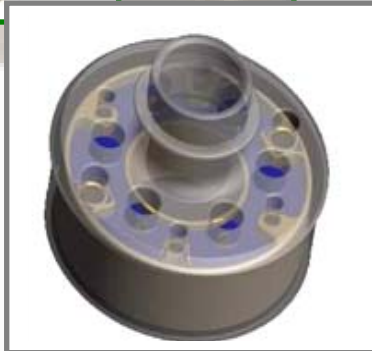
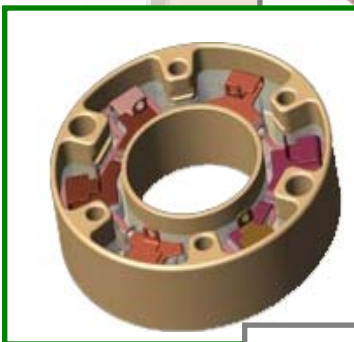
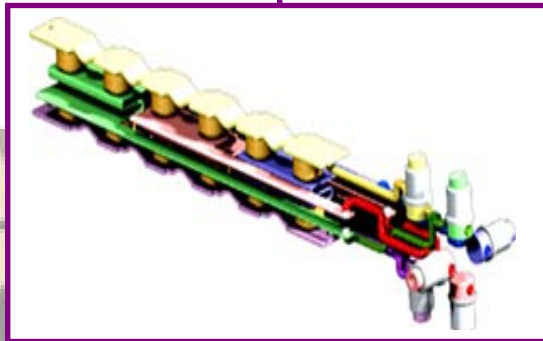
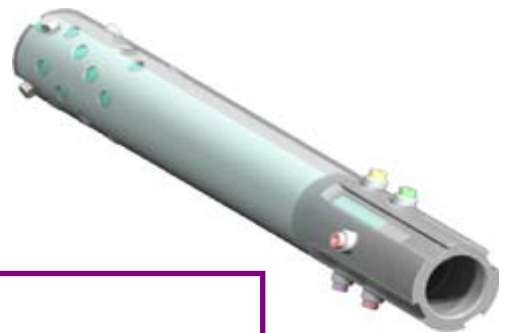
Rotating Rectifier Assemblies

Sensitron

www.sensitron.com/rotating.asp

General Overview

- **Voltage Rating per leg:** 600V / 1200V
- **Type of Rectifier:** Standard / Fast
- **Current Rating of Bridge:** Up to 120A
- **Operating Temperature:** Up to 160°C
- **Environment:** Compatible to Oil and other Airborne Fluids
- **Mechanical Rigidity:** Up to 35,000 RPM
- **Dimensions:** Available in 1" to 4"



Tools and Analysis

Sensitron

www.sensitron.com/rotating.asp

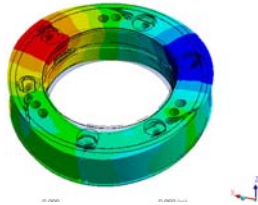
SolidWorks / Autodesk Inventor

- 3D Modeling
- Tolerance Analysis
- Interference Check

3-D Modeling



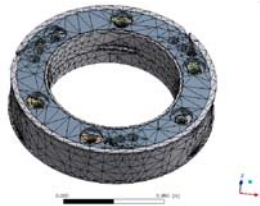
Thermal Modeling



ANSYS

- Thermal Analysis (transient & steady-state)
- Mechanical (stress) Analysis
- Thermal-Mechanical Coupled Analysis
- Center of Mass / Dynamic Balancing Analysis
- Weight Estimation

Stress Analysis

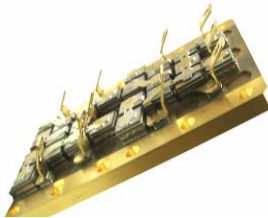


Rapid Prototype



High Power Rectifier Bridges

**Direct Oil-Cooled
Rectifier**
600V, 300 A



**High Power Full Wave
3-Phase Bridge Series**
from
1000V, 30A



3-Phase Full Wave Bridge
600V, 140A



Diode Module
1200V, 500A



Reliability Assessments

Reliability Analysis

- MIL-HDBK 217F

Fracture & Fatigue Analyses

- Crack tip analysis
- Materials examination
- Fundamental FEA computation

Please visit our website:

<http://www.sensitron.com>

SENSITRON SEMICONDUCTOR

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FEATURED PRODUCT



DC BRUSHLESS 3-PHASE DSP MOTOR CONTROL

Sensitron's Sensorless DC Brushless 3-Phase DSP Motor Controller is a complete motor control system. Sensitron's DSP controllers are rated at 600V, 70A suitable for motors up to 6KW operating off the 270V dc bus [more...](#)

KEYWORD SEARCH

www.sensitron.com

Search the Web

TOP PICKS

- [Our Product Line](#)
- [Cross Reference](#)
- [SJ/SX/SV Diodes](#)

IN THE NEWS

October 2007- Sensitron's new F483xH product is a three phase bridge rectifier assembly with fuses in each DC leg. Available in 150 to 1000 volts, and 30 to 5000ns. [more...](#)

September 2007- Sensitron offers a complete line of [Die Products](#) including Schottky Rectifier, Silicon Rectifier, TVS, Zener, and Small Signal. Sensitron can perform [more...](#)
[2007 News Archive](#)

PARAMETRIC TREE

Schottky Rectifiers (ALL)

MARKETS / SOLUTIONS



POWER ELECTRONICS

- 3 Phase/ Motor Controllers/ Drivers
- Power Conversion Products
- Power Factor Correction
- Solid State Power Solutions
- Hi-Reliability Battery Charger

SEMICONDUCTORS

RECTIFICATION

- Schottky Rectifiers
- Power Rectifiers
- Silicon Carbide Rectifiers
- High Voltage/Bridges/Diode Assemblies
- Oil Cooled /Rotating Rectifier

PROTECTION/ISOLATION

- TVS
- Zeners

SWITCHING/ CONTROL

- Discrete IGBTs/IGBT Modules
- MOSFETs/MOSFET Modules
- Amplifiers
- Voltage Regulators

DIE PRODUCTS

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