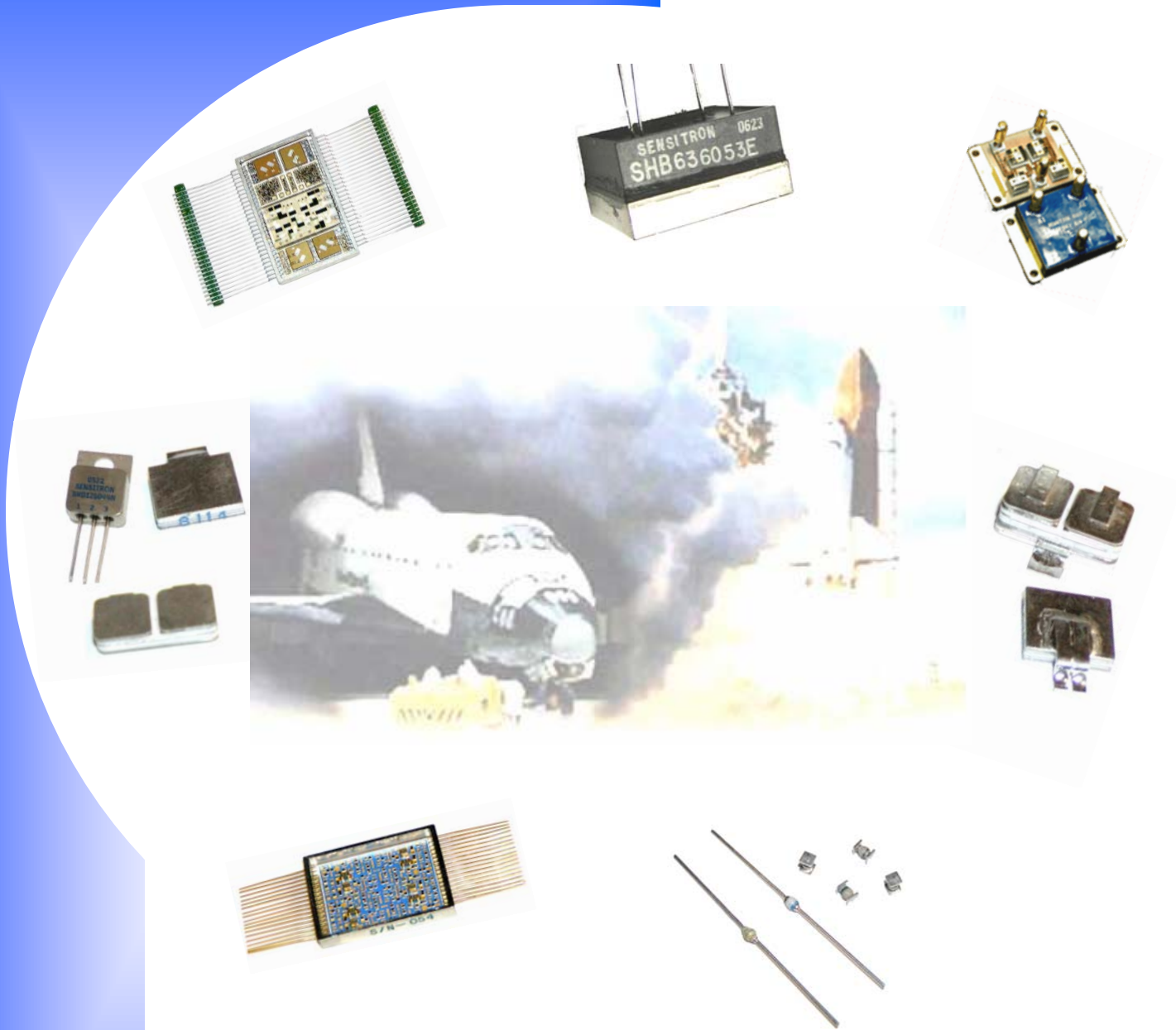




Space Level Components

Space Level Diodes

Sensitron

sales@sensitron.com



Features/Benefits

- All parts are traceable from starting wafer to shipped devices
- Parts available in Axial or MELF packaging
- Built and Screened to Space Level Quality
- Space quality level conformance testing is performed on each device lot
- All individual devices are serialized
- In-house inventory- to accommodate short lead times

POWER RECTIFIER-FAST (100-500ns)		
	PACKAGE	
Volts	102 MELF-1	303 MELF-B
400 trr		SS5418 SS5418US 150 ns
500 trr		SS5419 SS5419US 250 ns
600 trr	SS5619 SS5619US 250 ns	SS5420 SS5420US 450 ns
800 trr	SS5621 SS5621US 250 ns	
1000 trr	SS5623 SS5623US 500 ns	

POWER RECTIFIER-GENERAL PURPOSE (MORE THAN 500ns)			
	PACKAGE		
Volts	102 MELF-1	103	301 MELF-B
200 trr	SS5615 SS5615US 150ns		
400 trr			SS5551 SS5551US 2000ns
600 trr	SS5618 SS5618US 2000ns		SS5552 SS5552US 2000ns
800 trr	SS5620 SS5620US 2000ns	SS4248 5000ns	SS5553 SS5553US 2000ns
1000 trr	SS5622 SS5622US 2000ns	SS4249 5000ns	SS5554 SS5554US 2000ns

POWER RECTIFIER-ULTRAFAST (LESS THAN 100ns)		
	PACKAGE	
Volts	106 MELF-A	304 MELF-B
100 trr	SS5804 SS5804US 25ns	SS5809 SS5809US 30ns
150 trr	SS5806 SS5806US 25ns	SS5811 SS5811US 30ns
200 trr	SS6620 SS6620U 30ns	
400 trr	SS6621 SS6621U 30ns	
600 trr	SS6622 SS6622U 30ns	
800 trr	SS6623 SS6623U 50ns	
900 trr	SS6624 SS6624U 50ns	
1000 trr	SS6625 SS6625U 60ns	

SPACE LEVEL SCHOTTKY DIODES		
	PACKAGE	
VOLTS	DO-41	DO-213AB
45	SS5819-1	SS5819UR-1

SPACE LEVEL SIGNAL DIODES		
	PACKAGE	
Volts	DO-35	D-5D
150	SS6638	SS6638US
100	SS6639	SS6639US
	SS6642	SS6642US
	SS6640	SS6640US
75	SS6641	SS6641US
	SS6643	SS6643US

Silver leads for use on solar arrays also available!

Space Level Diodes

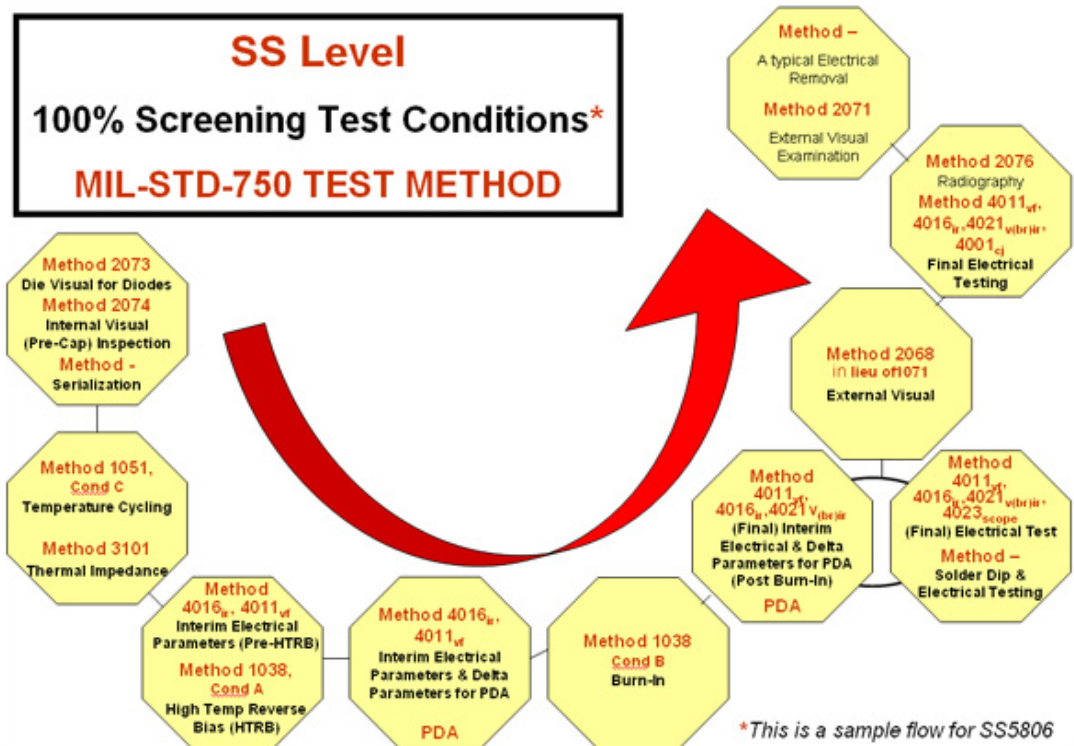
Sensitron

[www.sensitron.com / spacediodes.asp](http://www.sensitron.com/spacediodes.asp)

Sensitron's Space Level Diodes:

- Space components are processed on our JANTXV Manufacturing Line starting from Wafer Fabrication through Assembly & Testing using our specification 7700-4091
- We adhere to all space level requirements during the entire flow
- Our space level diodes are not up-screened, they follow the JANS space level screening flow from start to finish
- In stock at Sensitron

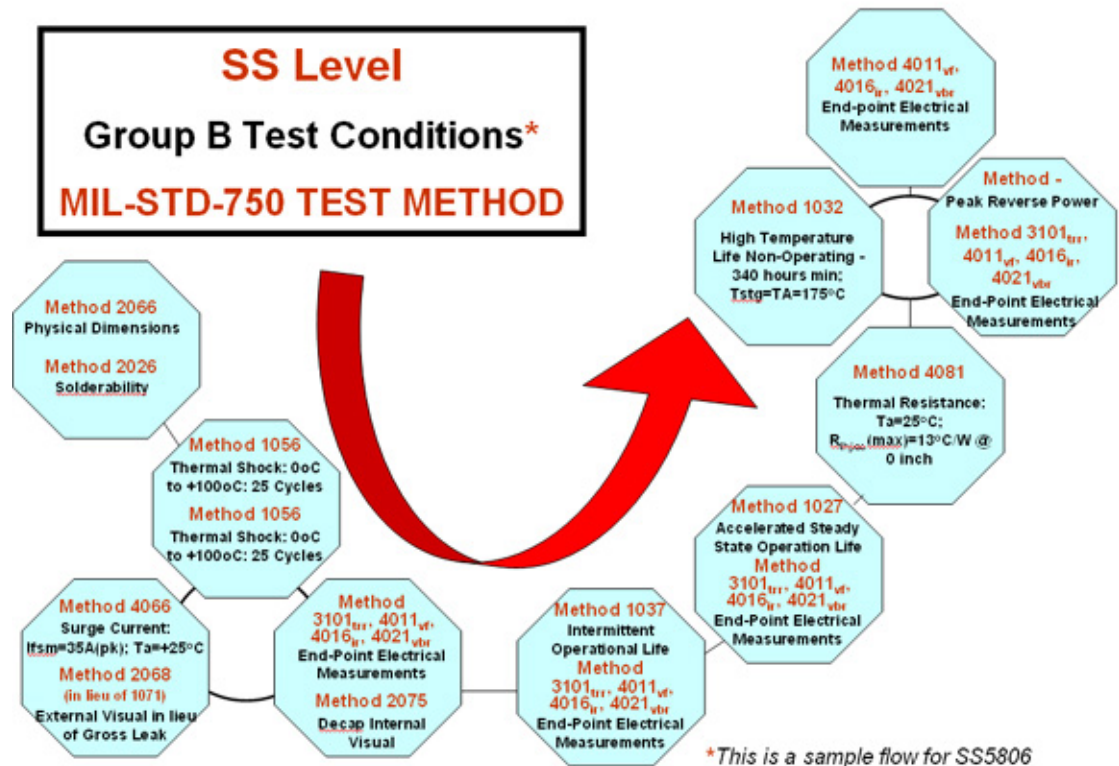
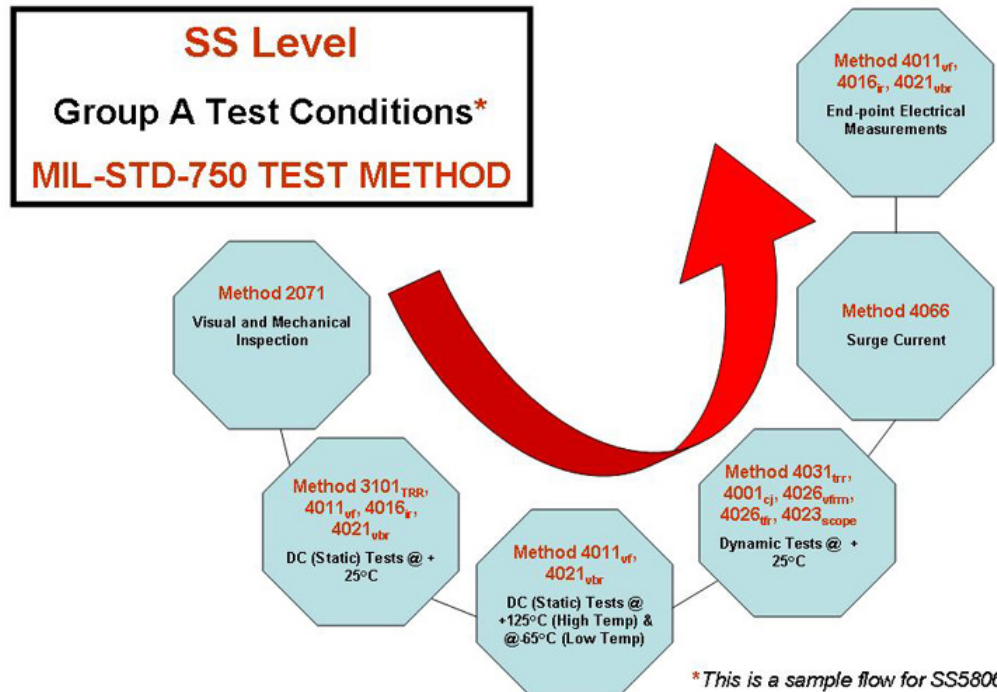
Space Flows for “SS”



Space Flows for "SS"

Sensitron

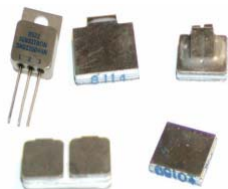
[www.sensitron.com / spacediodes.asp](http://www.sensitron.com/spacediodes.asp)



SiC Schottky Bridges & Discretes

Sensitron

www.sensitron.com/sic.htm



Features/Benefits

- "Zero Recovery Time"
- Electrical breakdown field 10X more than Si and GaAs
- Thermal conductivity over 3x that of Si and almost 10x GaAs
- Smaller, lighter and more reliable
- Can operate at junction temperatures up to 300°C and at high frequencies
- Reliability testing available

Silicon Carbide Bridges

Part Number	PIV	Max DC Output Current	Operating Temperature	Package Type	Type
	Volts	Amps	°C		
SHB601051E	600	20A	-55 to +175	TO-258 (modified)	Single Phase Full Wave
New! SHB601031E	600	8A	-55 to +175	TO-258 (modified)	Single Phase Full Wave
SHB601052FP/N	1200	5A	-55 to +175	TO-258 (modified)	3 Phase Half Wave
SHB601052G	1200	5A	-55 to +175	TO-258 (modified)	3 Phase Full Wave
SHB601052E	1200	10A	-55 to +175	TO-258 (modified)	Single Phase Full Wave
SHB601112E	1200	10A	-55 to +200	TO-258 (modified)	Single Phase Full Wave
SHB681123E	2500	20A	-55 to +150	SCB-1	High Voltage Single Phase Full Wave
SHB636053E	2500	5A	-55 to +150	SCB-2	High Voltage Single Phase Full Wave

Silicon Carbide Schottky Rectifier Discretes

Part Number	PIV	Max DC Output Current	Operating Temperature	Package Type
	Volts	Amps	°C	
SHD626150/D/N/P	300	10A / 10A / 20A / 20A	-55 to +175	TO-257
SHD626160/D/N/P	300	20A / 20A / 40A / 40A	-55 to +175	TO-257
SHD620150/P	300	10A / 20A	-55 to +175	LCC-5
SHD626051/P/N/D	600	10A / 20A / 20A / 10A	-55 to +175	TO-257
SHD620051	600	10A	-55 to +175	LCC-5
SHD625061/D/N/P	600	20A / 40A	-55 to +175	TO-254
SHD620031 / P	600	4A / 8A	-55 to +175	LCC-5
SHD626031/P / N / D	600	4A / 8A / 8A / 4A	-55 to +175	TO-257
SHD625051/P / N / D	600	10A / 20A / 20A / 10A	-55 to +175	TO-254
SHD620052	1200	5A	-55 to +175	LCC-5
SHD620112	1200	10A	-55 to +175	LCC-5
SHD619052/P	1200	5A / 10A	-55 to +175	LCC-3P
SHDC626112/P/N/D	1200	20A / 40A / 20A / 40A	-55 to +175	TO-257
SHDC624122/P/N/D	1200	20A / 40A / 20A / 40A	-55 to +175	TO-258
SHDC626052/P/N/D	1200	5A / 10A / 10A / 5A	-55 to +175	TO-257

Note: Customers should be aware that at the current stage of technical development of SiC, the reverse avalanche capabilities of the device are limited. Customer designs will need to accommodate these limitations and avoid exposure of the device to this and other potentially damaging conditions in their applications. Test data are available upon request.

Schottky Rectifier Discretes

Sensitron

www.sensitron.com/schottkyrec.htm

Part Number	Volts	Amps	Package
SHD126268	15	15	TO-257
SHD119568	15	45	SMD-1
SHD114668	15	120	SHD-3
SHD120211	30	15	SMD-0.5
SHD124511	30	45	TO-258
SHD114611	30	120	SHD-3
SHD125122	45	15	TO-254
SHD119512	45	45	SMD-1
SHD114622	45	120	SHD-3
SHD106223	60	15	TO-257
SHD119513	60	75	SMD-1
SHD118523	60	120	SHD-5
SHD126244	100	15	TO-257
SHD115534	100	60	SHD-2
SHD119624	100	120	SMD-1
SHD120235	150	15	SMD-0.5
SHD124535	150	45	TO-258
SHD118545	150	120	SHD-5
SHD124446	200	30	TO-258
SHD125636	200	35	TO-254
SHD114546	200	60	SHD-3

Note: For a complete list of our standard devices, see the parametric search and cross reference guides online at www.sensitron.com

Features/Benefits

- **Available Voltages:** 15 to 200V
- Ultra low leakage current for 100 & 150V
- 200°C process
- Low forward voltage drop
- Ceramic feedthroughs standard
- Wafer fab in-house
- Fast delivery time
- Drop in replacements for industry standard product in any package



Additional standard packages, voltages, and currents available!

Sensitron offers full Space level traceability and serialization. A selection of common parts is shown below:

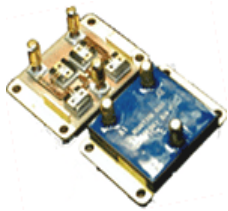
Amps	15A	15A	30A	35A	45A
Packages	TO-254	SMD-1/ SMD-0.5	TO-254	TO-254	TO-258
45V	15CGQ045	15CLQ045	30GQ045	22CGQ045 35CGQ045	50CKQ045
100V	15CGQ100	15CLQ100 15LJQ100	22GQ100	35CGQ100	50CKQ100
150V	15CGQ150	15LJQ150	30GQ150	12CGQ150	50CKQ150

Note: Part numbers are for reference only. Additional packages, voltages, and currents are available. For part ordering, please add suffix SS to denote Space Level Screening and suffix S for TX level.

Space Level Modules

Sensitron

www.sensitron.com



Diopak Rectifier Module

- Common cathode diode rectifier module featured at 800V, 160A in isolated case
- Non-hermetic diopaks with potting material encapsulating the die
- Used in the electrical power system of a space station



Power Switch

- Program - Power switch for power lines in a satellite
- Combines power hybrid technology with thermally enhanced construction
- Design and prototype manufacturing and testing done by Sensitron



Battery Bypass Module

- Power module used for the discharge function of a bypass
- Used for NiH and Li-Ion batteries in satellite applications
- Available with wire or terminal connections



Small Signal Hybrid

- Program – Parallel redundant translator for a satellite program
- Input Voltage: 12 Vdc max, Float Voltage: 50 Vdc max
- Density :148 components on a 0.7" x 0.8" substrate, 256 wirebonds



Free Wheeling Diode Array

- Used to prevent voltage spikes in satellite systems switch
- Hybrid design eliminates discrete devices
- Lighter and saves labor and space

Sensitron has product in the following space programs, and many others!

- 0 International Space Station
- 0 Titan
- 0 Globalstar
- 0 Atlas URCU
- 0 Advanced EHF
- 0 Space Based Radar
- 0 TerraSar
- 0 Kodak Camera Project
- 0 Dawn Satellite Camera
- 0 GPS

- 0 Galileo
- 0 ASTRO15
- 0 Mars Lander
- 0 Space Tech 5
- 0 STEREO (Solar Terrestrial Relations Observatory)
- 0 Swift Satellite
- 0 Spacebus 3000 & 4000
- 0 Herschel Planck
- 0 Next View

Please visit our website:

<http://www.sensitron.com>

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FEATURED PRODUCT



DIE PRODUCTS

Sensitron offers a complete line of Die Products including Schottky Rectifier, Silicon Rectifier, TVS, Zener, and Small Signal. Sensitron can perform die lot acceptance testing to the process flows of MIL-PRF-38534, Class H or Space Level, [more...](#)

IN THE NEWS

February 2008- Sensitron offers an extended line of Solid State Power Controller Modules which are designed to operate **without any heatsink requirements**. Available in 28Vdc, 1A to 40 [more...](#)

January 2008- Sensitron receives the Korry "Extra Mile" recognition award, in appreciation for excellent product support and service. Exceptional performance and strategic [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

KEYWORD SEARCH



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