

## Sensitron: Your Power Solutions Provider

### Transient Voltage Suppressors

Standard	Application	Clamp Levels	Spec Levels	Part Number(s)
DO-160	Aircraft Lightning Strike	1600A, 500uS, up to 200kW Pk Pwr	Level 3, 4, 5, Wave 5A, 5B	<b>LSP Series</b>
MIL-STD-1275	Military Vehicle	135A/130ms, up to 100kW/1ms	28V System Protection	<b>SCP-5282-x Series</b>
MIL-STD-1275	Military Vehicle	120A/100ms, clamp to < 38V	28V System Protection	<b>SCP-5282-4, SCP-5282-9 SuperClamp</b>
SAE J1113-11	Heavy Industrial Vehicle	100V/0.5Ω to 400ms, 174V/2Ω to 150ms	Conducted Immunity	<b>SAE-5282-12, SCP5282-3, SCP-5282-5/A, SCP-5282-9</b>
ISO16750-2	Industrial & Off -Road	151V/1Ω to 350ms; ISO-7637 200V 3B	Load Dump, Inductive Switching	<b>SCP-5282-3</b>

### Motor Drive Solutions

Description	Power Bridge	Smart Drive	Motor Controller	Complete Drive Assy
Function	3ph & H-Bridge FET, IGBT, SiC Modules	Pwr Bridge w/ Drivers, Sense/Protection	Closed loop speed, torque, sensorless control, FOC	Controller + EMI & Input filters, bias supplies, option for enclosure
Voltage Range	100V to 1200V	100V to 1200V	100V to 1200V	100V to 1200V
Current Range	10A to 1000A	10A to 150A	10A to 150A	20A to 100A
Protection	External	OCP, OTP, De-sat, Shoot-thru, OVP	OCP, OTP, De-sat, Shoot-thru, OVP	OCP, OTP, De-sat, Shoot-thru, OVP
I/O	External	Isolation, EN, Imon, Temp, Faults	Isolation EN, Imon, Temp, Faults, Speed Out, Vbus	Isolated, EN, Imon, Temp, Faults, Speed Out, Vbus
Features	Thermistor, Brake, 3ph Rectifier	Fault Protection, Thermistor, Brake	GUI, Quick-tune, Fault Protection, Thermistor, Brake	GUI, Quick-tune, DO-160/461 Compliant, Fault Protection
Temp Range	-65°C to 175°C	-55°C to 150°C	-55°C to 175°C	-55°C to 85°C
Part Number(s)	<b>SPM1xxx</b>	<b>SPM6XXX-XXx</b>	<b>SMCX Series</b>	<b>SECX Series</b>

### Solid State Power Management

Description	Single Ch.	4 Ch	6 Ch	16 Ch	32 Ch
Voltage, max	40 – 375VDC	90VDC	50VDC	90VDC	90VDC
Current	5 to 150 A	4x 100A	6x 25 A	8x5A, 3x15A, 5x25A	8x8A, 12x7A, 12x6A
Reports	Status	Ch I,V, Temp	Ch I,V, Temp	Ch I,V, Temp	Ch I,V, Temp
Interface	Discrete	CAN	RS232, RS485	CAN	CAN
Features	Programmable, I <sup>2</sup> t, EN, Iso control & I/O	Programmable, I <sup>2</sup> t, Battle Short, Iso control & I/O	Programmable, I <sup>2</sup> t, Battle Short, Iso control & I/O	Programmable, I <sup>2</sup> t, Battle Short, Iso control & I/O	Programmable, I <sup>2</sup> t, Battle Short, Iso control & I/O
Temp Range	-40°C to 85°C	-55°C to 100°C	-55°C to 100°C	-40°C to 100°C	-40°C to 100°C
Part Number(s)	<b>SPDP Series</b>	<b>SPAF04Cxx</b>	<b>SPDN06xx</b>	<b>SPDM16 Series</b> <b>SEDM16 Series</b>	<b>SPDM32CX0X</b> <b>SEDM32CX0X</b>

### QPL Products: JANS & JANTXV Diodes

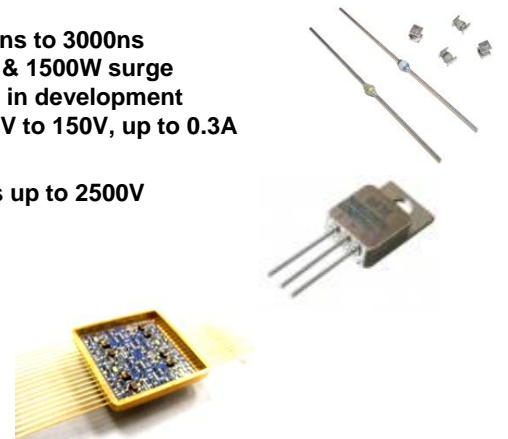
- General Purpose, Fast, Ultrafast Rectifier Die: 50V to 600V, 1A to 70A, 25ns to 3000ns
- TVS: Broad voltage range, broad spectrum transient suppression, 500W & 1500W surge
- Zener : 6.2V to 390V, 500mW to 5W, 5% tolerance for Vz. Lower voltages in development
- Schottky: Soft reverse recovery, 15V to 200V, Small Signal Switching: 70V to 150V, up to 0.3A

### High Reliability/Hermetic Discretes

- Rectifiers: Schottky up to 200V, Silicon Carbide up to 1200V, SiC Bridges up to 2500V
- PowerPak Diopaks: Up to 1200V, 100A
- Discrete MOSFETs: Up to 1000V, Discrete IGBTs: Up to 1200V

### Custom Power Solutions

- Near hermetic packaging for harsh environment applications
- Integrated heatsink and thermal conduction packaging
- Advanced Lightweight “Baseless” packaging technology
- Superior thermal management & high power density/circuit area ratio
- Sophisticated advanced simulation and modeling tools



**About Sensitron:** Sensitron is a leading manufacturer of high reliability power electronic solutions including MIL-PRF-19500 diodes, transient voltage protection components, motor controllers, solid state power management and conversion, and high performance power supply components. Sensitron has over 45 years heritage in serving the complete spectrum of high reliability markets including defense, aerospace, space, and medical.

OVERVIEW