

TECHNICAL DATA

PART NUMBER: SECP3-5282-x, REV -

High Power Mil-STD-1275 IP67 SuperClamp Enclosure

Key Features:

- Clamping below 40V DC for 40V, 100V, and 250V pulses
- High Pulse Power Capability up to 300A
- Unidirectional
- Precision Clamping
- Aluminum IP-67 Enclosure with pressure equalizing vent.
- Chassis mountable for heat sinking.
- 3/8"-16 Threaded studs for power cable connections.



Applications:

- +28V DC systems
- Enables compliance with MIL-STD-1275 requirements for Injected and Emitted Surges and Spikes

Protection Level:

- MIL-STD-1275 Compliant; 100V Surge withstanding for 100 msec with 0.25-ohm source impedance.
- MIL-STD-1275 Compliant; 40V Surge withstanding for 50 msec with 0.02-ohm source impedance.
- Capable of Clamping 100A for 500 msec square and decay to zero at 550 msec at 5 second intervals when attached to a heat sink
- DEF-STAN 61-5 Part 6 Issue 6 Load dump: 174V, 150msec (50% to 50%), 1-ohm source impedance.
- Designed to meet: SAE J1113-11 under following conditions:
 - ✓ 174V, 2-ohm up to 150msec
 - ✓ 174V, 5-ohm up to 350msec

Part Ordering Information:

- SECP3-5282-4 Enclosure containing 3 units of SCP-5282-4 SuperClamp TVS devices.
- SECP3-5282-9 Enclosure containing 3 units of SCP-5282-9 SuperClamp TVS devices.

Contact Sensitron for different clamping voltages, a different number of units, and other enclosure options.

TECHNICAL DATA
PART NUMBER: SECP3-5282-x, REV -

SECP3-5282-4 TECHNICAL DATA

(All parameters are at Tc = 25°C unless otherwise specified)

Rating	Condition	Symbol	Min	Typ	Max	Units
Reverse Stand-Off Voltage	-	V_{WM}	-	28	33	Volts
Reverse Leakage	@ V_{WM}	I_D	-	30	50	mA
Clamping Voltage	@ 2A	V_C	33.80	34.00	34.20	Volts
	@ 30A		33.80	34.20	34.90	
	@ 150A		34.70	35.20	35.90	
	@ 300A		35.90	36.50	37.20	
Peak Pulse Current (single 100-msec square pulse)	-	I_{PP}			300	Amps
Operating & Storage Temp.	-	Top& Tstg	-55		+ 150	°C

SECP3-5282-9 TECHNICAL DATA

(All parameters are at Tc = 25oC unless otherwise specified)

Rating	Condition	Symbol	Min	Typ	Max	Units
Reverse Stand-Off Voltage	-	V_{WM}	-	28	30	Volts
Reverse Leakage	@ V_{WM}	I_D	-	30	50	mA
Clamping Voltage	@ 2A	V_C	30.20	30.38	30.56	Volts
	@ 30A		30.3	30.58	31.17	
	@ 150A		31.10	31.46	32.08	
	@ 300A		32.10	32.57	33.20	
Peak Pulse Current (single 100-msec square pulse)	-	I_{PP}			300	Amps
Operating & Storage Temp.	-	Top& Tstg	-55		+ 150	°C

