

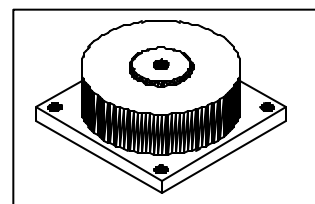
TECHNICAL DATA
DATA SHEET 820, REV. -

Load Dump Protector

This rugged, hermetic module is capable of protecting battery powered electrical systems from high energy transients and 'over-voltage' power surges resulting from battery disconnect, alternator/generator load dump situations, in either direction.

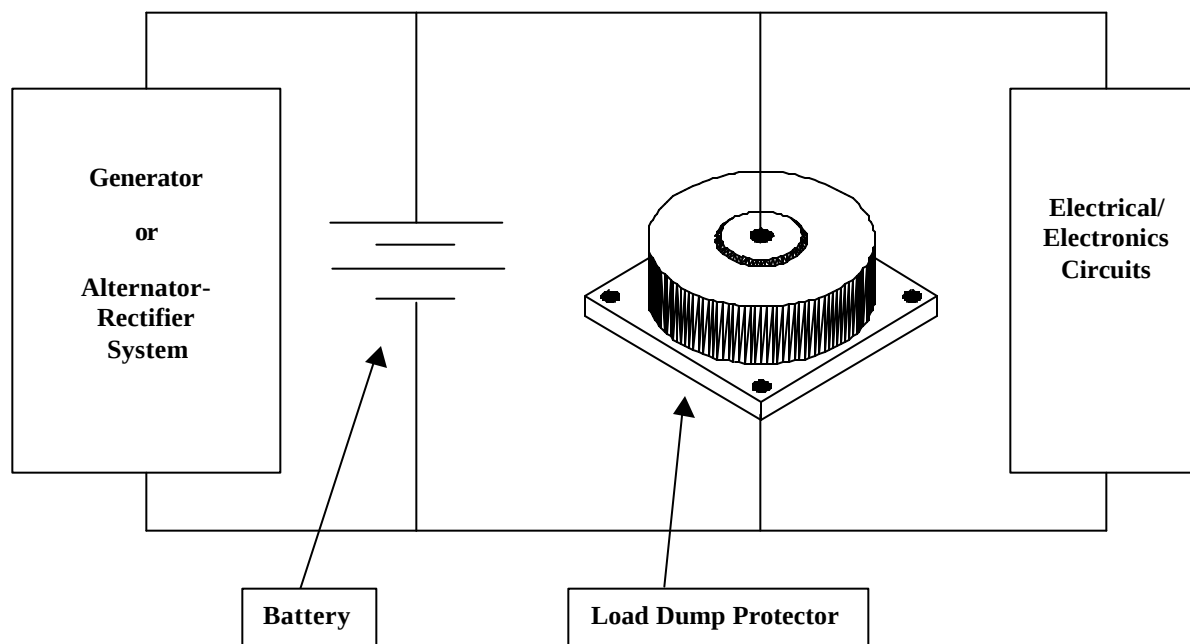
Features:

- Internally hermetic
- Bi-Polar
- Withstands up to 100 Amps, 50ms pulse
- Maximum clamping voltage < 50 Volts
- -55°C to 150°C junction operating range



Applications:

? Any charging system that includes a battery, alternator-rectifier/generator, and electrical/electronics circuits that require protection against power surges.



SENSITRON SEMICONDUCTOR

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Operating Conditions:

- $V_r = \pm 28 \text{ Vdc}$, $I_r @ V_r < 10 \mu\text{A} @ 25^\circ\text{C}$
- V_Z Minimum: $35 \text{ Vdc} @ 25^\circ\text{C} @ 10\text{mA}$
- V_Z Maximum: $39 \text{ Vdc} @ 25^\circ\text{C} @ 10\text{mA}$
- Operating Temperature: -55°C to 150°C
- $T_C (V_Z) + 0.1\% / ^\circ\text{C}$

Reverse Surge and Clamp Protection:

- 100A, 50ms pulse decay to 0 @ 150ms
- Clamping limit $V_C \leq 50 \text{ Volts}$ in either direction
- Maximum dc power dissipation: 200 Watts @ $T_C = 25^\circ\text{C}$

Construction:

- Consists of 10 discrete hermetic sealed large area bipolar silicon devices, plus nickel-plated copper heat sink/base plate.

Mechanical Dimensions: In inches / mm