

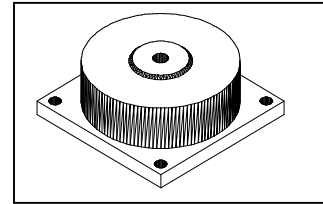
TECHNICAL DATA  
DATA SHEET 820, REV. -

## 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.

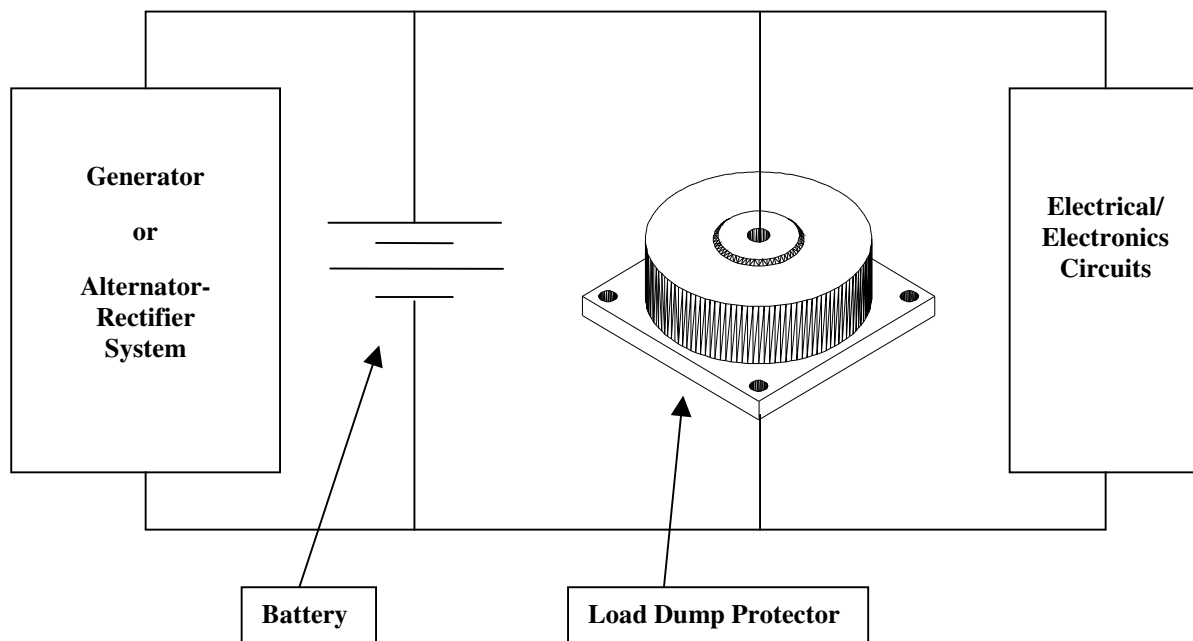
### Features:

- 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

## TECHNICAL DATA

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**Operating Conditions:**

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

**Reverse Surge and Clamp Protection:**

- 100A, 50ms pulse decay to 0 @ 150ms
- Clamping limit  $V_C \leq 50$  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**