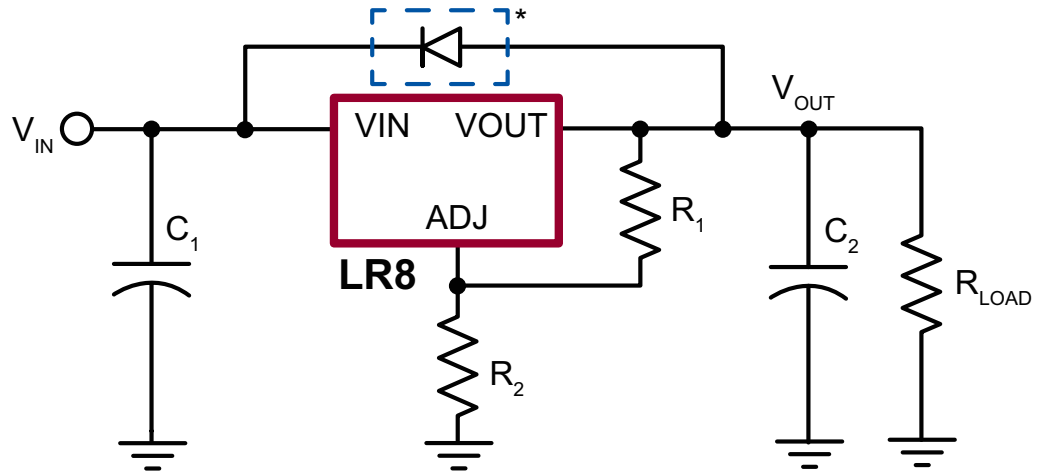


Product Summary Sheet

High Voltage, Off-Line Adjustable Three-pin Linear Regulator

Applications:

- ▶ Trickle battery chargers
- ▶ High voltage linear power supplies for ATE, controls and instrumentation
- ▶ LED and Relay drivers for instrumentation & control equipment (constant current operation)
- ▶ Lighting controls and consumer appliances
- ▶ Meter reader supply
- ▶ Switch mode power supply start-up (especially space constrained applications)
- ▶ MEMs biasing supplies
- ▶ "Universal" input power supplies



* Required for conditions where V_{IN} is less than V_{OUT}

Typical Application Circuit



3-Lead TO-252 (K4)



3-Lead SOT-89 (N8)



3-Lead TO-92 (N3)

Product Overview:

The LR8 is the industry's first three pin D-Pak high voltage linear regulator with adjustable output voltages (1.20 to 438V). The LR8 is designed for applications that require operation between 120 and 240VAC. The LR8 gives designers the flexibility to incorporate higher current capabilities at higher input voltages for a wide variety of cost-sensitive applications where board space is at a premium. The device offers a 13.2 to 450V input voltage range, making it ideal for universal off-line uses.

Features:	Benefits:
Wide supply voltage range	Eliminates need for voltage selector switch in "Universal" input power supplies and allows worldwide usage with one design.
Current limit and over-temperature protection	Tolerates circuit faults without blowing fuses.
Adjustable output voltage	Accommodates many output voltage requirements.
TO-92, SOT-89 and D-Pak packages	Conserves valuable PCB real estate.
Low quiescent current	Efficient with low loads, when used for SMPS start-up, power consumption goes to nearly zero after start-up.



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High Voltage, Off-Line Adjustable Three-pin Linear Regulator

Ordering Information / Availability

<u>Part Number</u>	<u>Package Option</u>	<u>Samples</u>	<u>Product Availability</u>
LR8K4-G	3-Lead TO-252 (Green)	Now	4-6 Weeks ARO
LR8N8	3-Lead SOT-89	Now	4-6 Weeks ARO
LR8N8-G	3-Lead SOT-89 (Green)	Now	4-6 Weeks ARO
LR8N3	3-Lead TO-92	Now	4-6 Weeks ARO
LR8N3-G	3-Lead TO-92 (Green)	Now	4-6 Weeks ARO

-G indicates the part is RoHS compliant (Green).



Product Contact

For any questions regarding the LR8 please contact your local area Supertex sales office, or contact the main office in the US at:

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