

Semitec's CRD range of current-regulating diodes delivers constant current output over a wide voltage input range, up to 100V. A single CRD allows you to replace several components in a conventional constant current network, thus allowing you to design multiple input voltage circuits and reduce your component count in space critical applications.

Offering current values from 0.01mA up to 15mA, Semitec's CRDs offer protection, stability and improved performance to circuits driving LEDs, generating waveforms and biasing amplifiers. They can also be used as an excellent voltage reference in conjunction with a standard zener diode.

CRDs are available in both an axial DO-35 package and a mini-MELF format. The glass encapsulation of these two packages ensures long-term stability and operating use up to 150°C. By using them in series or parallel, both higher voltages and higher current ratings can be achieved.

Pb free versions will be available from this autumn.

***Typical applications include:***

- ***Constant LED brightness***
- ***LED over-voltage protection***
- ***Dual voltage inputs eg 12/24V***
- ***Constant current circuits***