

“AC *Burn-in* for Rectifier Diodes”



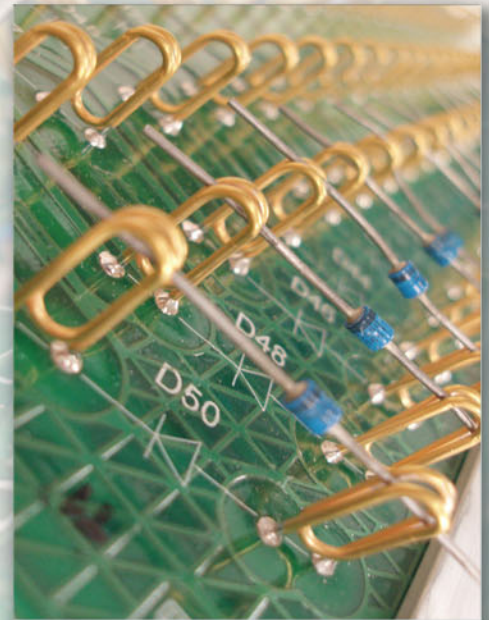
Complete & Self-contained

The ACOL Rectifier Diode Burn-in System is a complete, self-contained system, with device cards, for applying a forward test current and reverse bias on up to 2000 rectifier diodes. The system accommodates up to 40 device cards, each with 50 diodes.

The system is designed for the Life Test and Burn-In of rectifier diodes under actual use conditions, as required by military and customer specifications. Each diode is stressed with a half cycle of forward current, which self-heats the diode. This is followed by a half cycle of reverse voltage. These cycles are repeated at a 50 or 60Hz rate.

Features

- True simulation of rectifier operating conditions
- Forward current to 4.0A per diode
- High reliability SCR switching
- Peak inverse voltage to 1100V
- Liquid cooling passes system-generated heat out of the operating environment
- 2 independent current controls for every device card
- Individually monitored forward current and reverse voltage
- Transient voltage protection for supply & load circuit
Internal transient and thermal protective devices



Energy - Efficient Operation

Energy-efficient operation is the key for the System 1000 “to strive to run green.” Forward current through the diodes could be very costly in a parallel mode. However, this system utilizes a *proprietary design that switches diodes into series strings for forward current!* This shares the forward current of 1 diode with 24 others, further ensuring that each diode has uniform values of current.