

Powerex Reliability Testing & Analytical Capabilities

Reliability Testing Capabilities



Highly Accelerated Stress Testing (HAST)

Environmental Testing

- Barometric pressure
- (reduced)
- Immersion
- Moisture resistance
- Resistance to solvents
- Steady-state operation life
- Steady-state operation life (sample plan)
 High temperature life
- (non-operating)
- Intermittent operation life
- Burn-in (HTRB, HTGB)
 Salt atmosphere
- (corrosion) - Salt spray (corrosion)
- Blocking life
- Temperature cycling (air-to-air)
- Thermal shock (liquid-to-liquid)
- Hermetic seal
- Highly Accelerated Stress Testing (HAST)



- Breakdown voltage
 - On-state Voltage
- Leakage
- Cutoff current
- di/dt Testing



Thermal Impedance Testing



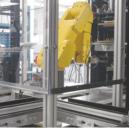
Radiography (X-ray) Testing

Circuit-Performance & Thermal Resistance Measurements

- Thermal impedance testing
- Thermal impedance measurement for insulated gate bipolar transistor (delta gateemitter on voltage method)
- Thermal resistance for thyristors

Mechanical Characteristics Testing

- Shock
- Solderability
- Terminal strength
- Bond strength
- Vibration fatigue
- Vibration, variable frequency
- Visual & mechanical examination
- Radiography (x-ray)



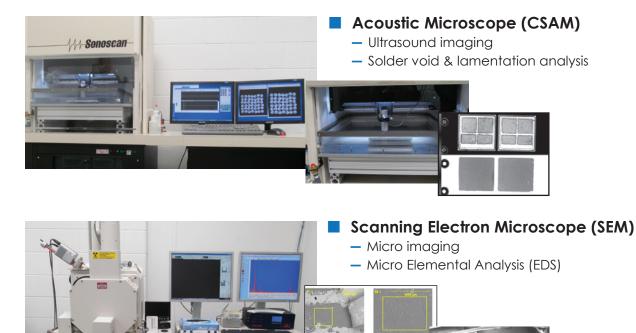
Electrical Testing



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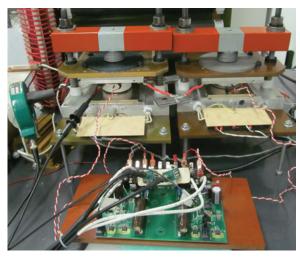
Analytical Capabilities





Coordinate Measuring System (CMM)

- Automated mechanical measurements
- Incoming, shipping, & analytical functions
- Baseplate flatness



di/dt Tester — Measures di/dt



For more information: visit: http://www.pwrx.comT email: globalsales@pwrx.com phone: 724-925-7272, Option 3 (Applications Engineering Assistance)

