DARRAH's Portable Power Semiconductor Tester

DARRAH ELECTRIC COMPANY offers the **DST5000 Portable Power Semiconductor Tester** that accurately tests the functionality of all types of **Diodes, SCR Thyristors**, asymmetric and symmetric type **GTO Thyristors**, discrete or packaged Darlington **Transistors**, and all styles of **IGBTs** up to 5kV. All types of packaging can be tested, including stud, module, press pack, or hockey puck style.

Performs Three Functional Tests:

- Gating Adjustable from 0 to 12 Volts, 2 Amp supply for Gating or Firing controlled devices. Digital Voltmeter & Ammeter indicate actual gate voltage (V_{GT}) and current (I_{GT}) when gated.
- Forward Blocking Adjustable from 0 to 5000 Volts.
 A digital Ammeter indicates leakage current at semiconductor voltage rating.
- Reverse Blocking Adjustable from 0 to 5000 Volts.
 A digital Ammeter indicates leakage current at semiconductor voltage rating.





Benefits

- Quick & Accurate Results Takes all the guesswork out of testing semiconductors.
- Marginal components are easily identified during scheduled service in place, resulting in less unscheduled down time and unnecessary cost.
- Test semiconductors before they are installed to ensure they are functional, while establishing a baseline for future reference.
- Perform on-receipt inspection to confirm components meet specifications.



Features

- Compact, Portable, and Easy to Use.
- Heavy Duty Composite Case Designed for portability & to protect the tester.
- Dimensions: 8.5"H x 16"W x 20"L Weight: 36 lbs
- High Quality Digital LED Meters Indicate forward and reverse leakage current, voltage, gate voltage and current for triggering.
- User-Friendly Operating Instructions Simple yet comprehensive instructions for test on all semiconductors in discrete or module packages.

Operation

- The tester has two specific test functions High Voltage and Gate. Simply toggle the switch to select which function you require. Indicating lights will illuminate to show which test is selected.
- Select a maximum voltage level appropriate to the semiconductor being tested - either 2500 Volts or 5000 Volts VRRM and VDRM.
- Select a maximum leakage current appropriate to the semiconductor being tested – either 10 mA or 100 mA.

Safety

- All tests require the operator to have both hands on the tester.
- The tester is adequately grounded and has a time out feature that stops the high voltage test after 60 seconds.
- Zero voltage start feature for operator safety.

Specifications

 Electrical specifications apply for an operating temperature range of 32 to 104 degrees F (0 to 40 degrees C), relative humidity up to 90%.

AC Input

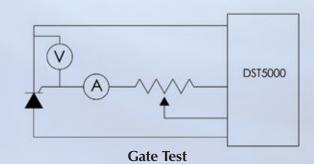
• 115 Volts, 1 Phase, 50/60 Hertz, 2 Amp

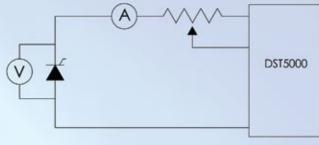


Press Pack Compression Clamp



- Test the device in your system or remove it for bench testing - 6 Foot Testing Leads are provided. Test semiconductors that are removed from the heatsink and placed in the compression clamp.
- Puck Compression Clamp Tester comes with a high-quality clamp, adjustable from 38mm to 125mm silicon sizes.





Forward & Reverse Blocking Test



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