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PXI Systems Alliance

The 52958 is a Leakage test module compatible with the PXI format. It provides a programmable voltage source and current measurement. The unit also has programmable "current limit" and voltage "read-back" functions allowing "breakdown" voltage to be measured. It is optimised for speed for use in high throughput applications.

It is typically deployed in conjunction with the 52956 Module (Source Current / Measure Voltage).

ORDERING INFORMATION

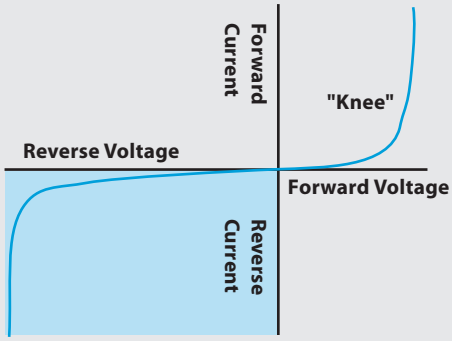
52958 : Leakage Test Module (Mercury Relay)

KEY FEATURES

- Long life time-mercury Relay
- Sensitive current ranges for accurate leakage measurements
- Up to 200V source for accurate breakdown measurements
- Fully compatible with Chroma Current Source/Measure module
- Internal switching for fast sequencing of forward, reverse and breakdown test modes
- Small footprint

Softwrae for Windows 2000 & XP

- **Soft Front Panel**
  Soft Front Panel allows control of switch functions for "bench-top instrument" use.
- **Drivers**
  Drivers based on NI-VISA®, Visual C++, Visual Basic®, LabVIEW®, LabWindows/CVI® drivers are supported
- **Install Wizard**
  Our install wizard gets you up and running in minutes!



APPLICATIONS

- Leakage and breakdown testing of semiconductor diode junctions including LEDs and Lasers
- High speed wafer test
- Low Current Constant Voltage Source Applications

SPECIFICATIONS	
Module	**52958**
Parameter	Value
Output Polarity	Unipolar output with switching to allow inversion of the output stimulus/measurement. All input/output signals are fully floating with respect to chassis ground.
Voltage Stimulus (2-wire)	
Ranges	10V / 200V
Accuracy	±0.3% ±0.1% F.S.
Maximum Current	5mA
Voltage Measurement (for stimulus verification only)	
Ranges	10V / 200V
Accuracy	±0.3% ±0.1% F.S.
Current Measurement	
Ranges	100 μA / 5mA
Accuracy	±0.3% , ±0.2% all ±0.1% F.S.
Ranges	1 μA (Note1)
Accuracy	±2% ±0.1% F.S.
Current Compliance	
Ranges	100 μA / 5mA
Accuracy	±5% ±0.1% F.S.
Dimensions	3U PXI (2 slots)
Current Accuracy	12 bits resolution
Voltage Accuracy	12 bits resolution
Operation Environment	Temperature : 10~40°C Humidity : 10%~70%
PCI Data BUS	PCI V2.2 compliant, 33MHz, 32 Bits
Standards	PXISA PXI® 2.0 PICMG 2.0 R3.0 CompactPCI®

Note1 : test condition > 30nA and under resistor load.

All specifications are subject to change without notice.

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