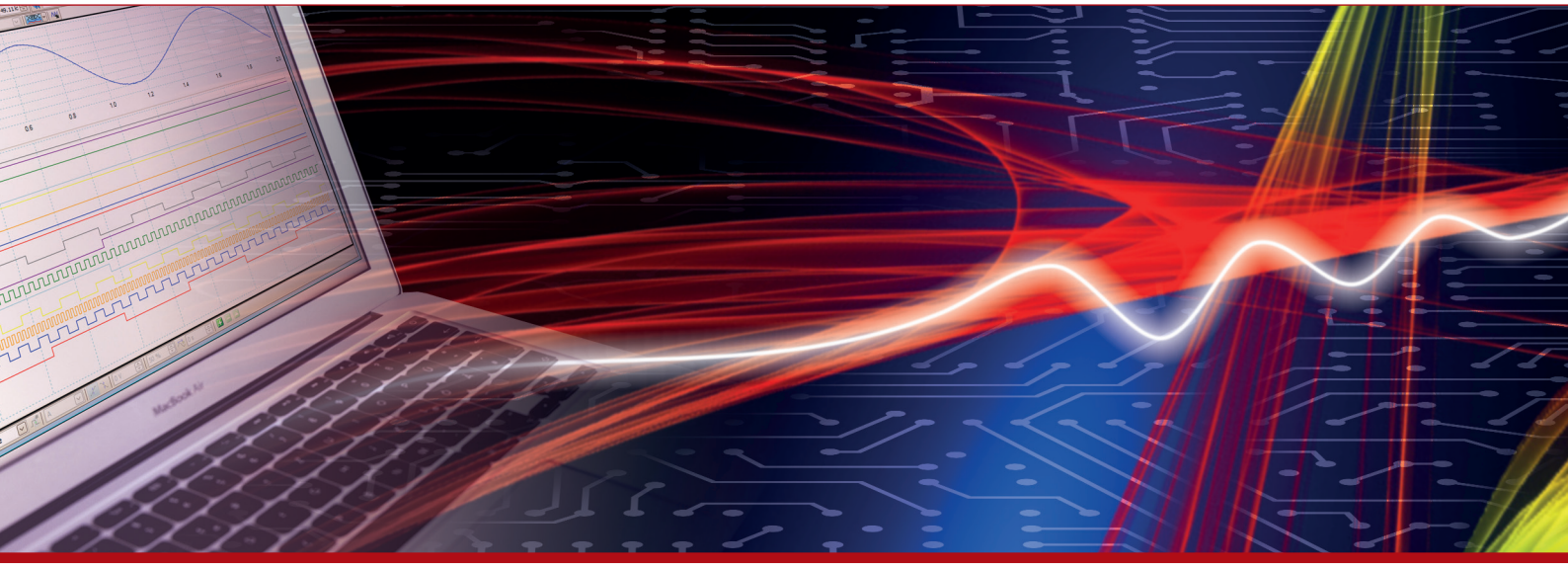
Product Datasheet - Technical Specifications



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Keysight U2941A
Parametric Test Fixture

Data Sheet

KEYSIGHT TECHNOLOGIES

Introduction

The Keysight Technologies, Inc. U2941A parametric test fixture is designed to complement usage of the Keysight U2722A USB modular source measure unit in the testing of semiconductor components, including SMT and DIP ICs.

The bundled Keysight Parametric Measurement Manager software also supports the Keysight U2751A USB modular switch matrix when used with the U2722A.

Features

- Closed lid minimizes ESD on sensitive circuits and components
- Up to 3 source/measure channels supported
- Different socket modules to match a wide variety of pin configurations
- Assembly PTFE plate for low-current measurements
- Bundled Keysight Parametric Measurement Manager software eases set-up, testing and data recording

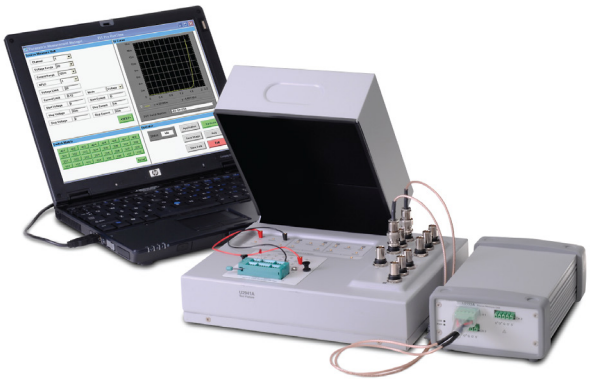


Figure 1. Sample setup of the U2941A connected directly to the U2722A source measure unit, and fastened with the DIP socket module.

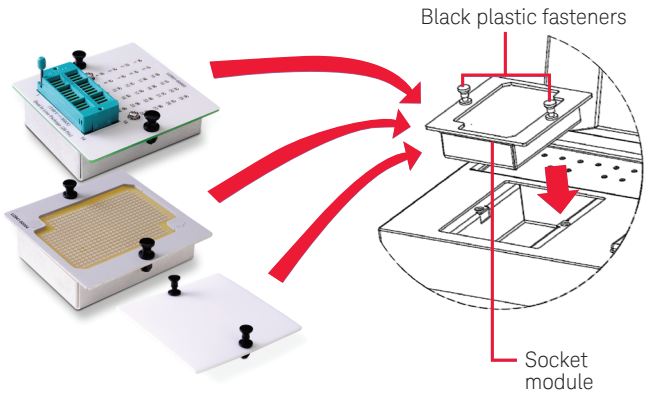


Figure 2. Socket modules are interchangeable to match pin configuration of device-under-test (DUT).

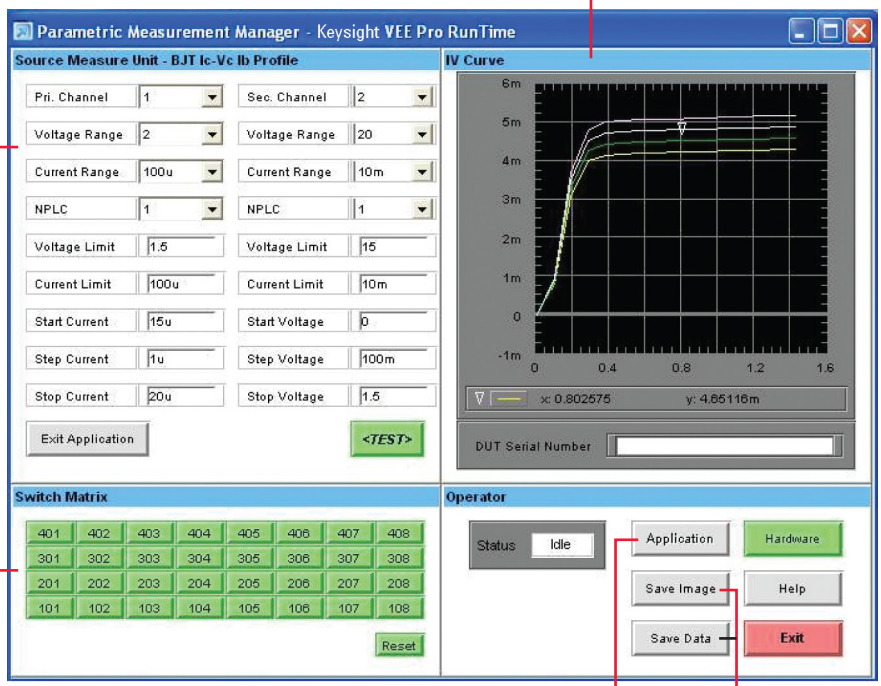
Features of the Keysight Parametric Measurement Manager Software

The Keysight Parametric Measurement Manager software comes bundled with the U2941A parametric test fixture. The software helps kick start tasks sooner with the below features:

- Out-of-box configuration of instruments for easy set-up
- User-friendly graphical user interface
- IV curve plotting with various graph tools, including autoscale, zoom and markers
- Saving of IV curve data to text file format
- Saving of IV curve graph to JPEG file format
- Print graph function

Displays Main and Application test set-ups of the U2722A

Displays IV curve plot



Provides relay switching functions for single or multiple channels of the U2751A

Enables quick set-up of specific application tests (diode forward/ reverse IV tests and resistance measurement) from the library

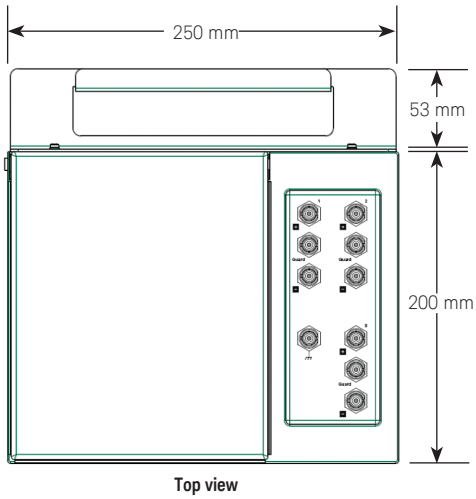
Saves IV curve plot image and data to JPEG and TXT files, respectively

Specifications and System Requirements

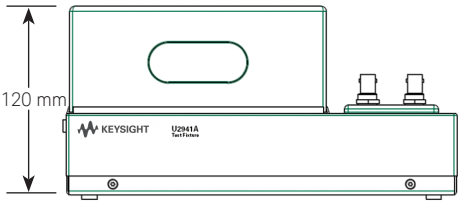
Specifications

The following specifications are valid for 23 °C ±5 °C and <70% relative humidity.

Electrical specifications	
Voltage rating	60 VDC
Current rating	1 A
Environmental specifications	
Operating temperature	0 °C to 50 °C
Storage temperature	–20 °C to 70 °C
Operating humidity	20% to 85% RH non-condensing
Storage humidity	5% to 90% RH non-condensing
Altitude	Up to 2000 m
Physical specifications	
Dimensions (WxDxH)	250 mm × 200 mm × 120 mm
Weight	1.33 kg (approx.)



Top view



Front view

Minimum system requirements

Hardware	
Processor	1.6 GHz Pentium IV or higher
RAM	512 MB (1.0 GB or higher recommended)
Hard disk space	1.0 GB free disk space at runtime
Display resolution	1024 × 768 recommended
Operating system and browser	
Operating system	– Windows XP Professional or Home Edition, Service Pack 1 or later; or – Windows 2000 Professional, Service Pack 4 or later
Browser	Microsoft Internet Explorer 5.01 (6.0 or higher recommended)
Software	
Keysight IO Libraries Suite [1]	Version 15.0 or higher
Keysight VEE [2]	Runtime version 8.5, patch 8.5.1
Keysight Measurement Manager [3]	Version 1.6 or higher
Microsoft .NET Framework [1]	Version 1.1 and 2.0

1. Available on Keysight Automation-Ready CD
2. Bundled with Keysight Parametric Measurement Manager CD
3. Bundled with Keysight U2722A USB modular source measure unit or Keysight U2751A USB modular switch matrix

Ordering Information

Parametric test fixture

U2941A

Items shipped as standard with parametric test fixture:
- Assembly PTFE plate
- 28-pin dual-in-line package (DIP) socket module
- 0.1-inch universal socket module
- 0.075-inch universal socket module
- 0.05-inch universal socket module
- Pin plug-to-pin plug cables, black (4 pcs)
- Pin plug-to-pin plug cables, red (4 pcs)
- Pin plug-to-pin plug cables, blue (4 pcs)
- Pin plug-to-miniature clip cables, black (4 pcs)
- Pin plug-to-miniature clip cables, red (4 pcs)
- Pin plug-to-miniature clip cables, blue (4 pcs)
- PCB jumper pin
- BNC to two-wire cable, 1 m (3 pcs)
- Keysight Parametric Measurement Manager CD (includes installation and operating guides)

Socket modules

U2941A-201

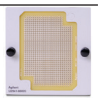
Assembly PTFE plate
- Insulation board with minimal leakage current: suitable for extremely low-current measurements.

U2941A-202

28-pin dual-in-line package (DIP) socket module
- Lever actuated zero insertion force (ZIF) socket

U2941A-203

0.1-inch universal socket module
- 0.1-inch pitch: suitable for virtually any device such as components, DIP IC, or small scale circuit

U2941A-204 

0.075-inch universal socket module
- 0.075-inch pitch: suitable for virtually any device such as components, DIP IC, or small scale circuit

U2941A-205

0.05-inch universal socket module
- 0.05-inch pitch: suitable for virtually any device such as components, DIP IC, or small scale circuit

Cables

U2941A-101

Pin plug-to-pin plug cable, black

U2941A-102

Pin plug-to-pin plug cable, red

U2941A-103

Pin plug-to-pin plug cable, blue

U2941A-104

Pin plug-to-miniature clip cable, black

U2941A-105

Pin plug-to-miniature clip cable, red

U2941A-106

Pin plug-to-miniature clip cable, blue

U2941A-107

BNC to two-wire cable, 1 m

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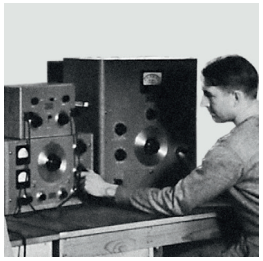

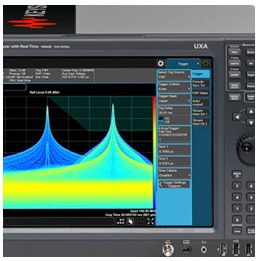

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