

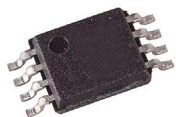
Keysight Technologies

Electronic Components

Semiconductor/Transistor Evaluation

Keywords

IC, solar cell, MEMS, nanotechnology, power device



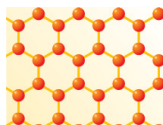
IC



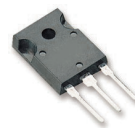
FLASH memory



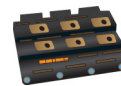
Solar cell



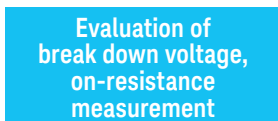
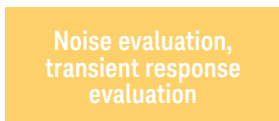
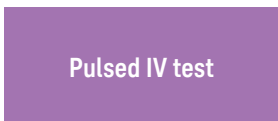
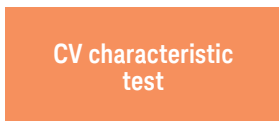
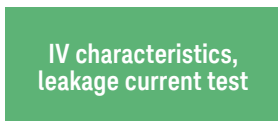
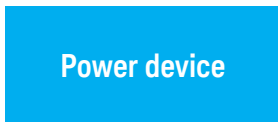
Carbon nanotube



IGBT



IGBT module



B1500A
Semiconductor
Device Analyzer



E5270B
8-Slot Precision
Measurement Mainframe



B2900A Series
Benchtop Source/
Measure Unit



B1500A
Semiconductor
Device Analyzer



E4980A
Precision
LCR Meter



4294A
Precision Impedance
Analyzer



B1542A
10 n second
Pulsed IV Parametric
Test Solution



B1500A
Semiconductor
Device Analyze

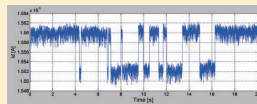


Noise evaluation,
transient response
evaluation

B1500A
Semiconductor
Device Analyzer

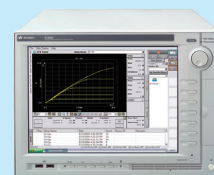


Used in combination with
the B1530A Waveform
Generator/Fast
Measurement Unit Module,
the B1500A is capable of
RTN measurement.



Evaluation of
break down voltage,
on-resistance
measurement

B1505A
Power Device
Analyzer/
Curve Tracer



N1259A/N1265A
High Power Test
Fixture for the B1505A



Keyword	Test item	Typical product model	Features	Approx. price
IC	IV characteristics	B2900A Series Benchtop Source/Measure Unit	1- or 2-channel configuration with minimum 10 fA current resolution Capable of voltage and current analysis with an intuitive GUI On-screen IV curve display	From 6,000 USD
	IV/CV characteristic	B1500A Semiconductor Device Analyzer	Single-box solution for IV and CV measurements, 0.1 fA/0.5 μ V to 1 A/200 V Excellent pulse measurement capabilities	From 55,000 USD
	Pulsed IV measurement	B1542A Ten Nanosecond Pulsed IV Parametric Test Solution	Capable of characterizing high-k gate dielectric and SOI (silicon-on-insulator) utilizing minimum 10 nsec pulse width pulsed IV measurement	From 34,000 USD
	Noise evaluation/ Transient response evaluation	B1500A Semiconductor Device Analyzer (B1530A Waveform Generator/Fast Measurement Unit Module)	Supports accurate, fast IV and time-domain measurements for a large variety of applications including pulsed IV, NBTI, and RTS noise measurement	From 60,000 USD
Solar cell	IV characteristics	E5262A 2-Channel (MPSMU, MPSMU) High Speed Source Monitor Unit E5263A 2-Channel (HPSMU, MPSMU) High Speed Source Monitor Unit	Provides high-speed DC measurements with 2 channels, 100 mA/100 V (E5262A) and 1 mA/200 V (E5263A)	E5262A From 15,000 USD E5263A From 18,000 USD
	IV/CV characteristic	B1500A Semiconductor Device Analyzer B1505A Power Device Analyzer/Curve Tracer	Capable of IV characterization up to 1 A/200 V (B1500A) and 1500 A/10 kV (B1505A) CV characteristic test also available	B1500A From 55,000 USD B1505A From 90,000 USD
MEMS	Leakage current test/ CV characteristic	B1500A Semiconductor Device Analyzer	Solution for minimum 0.1 fA/0.5 μ V current and voltage resolution and CV characterization	From 52,000 USD
	CV characteristic	E4980A Precision LCR Meter	Precision CV measurement by sweeping at any frequency in the 20 Hz to 2 MHz range and with 0.05 % basic accuracy and built-in 40 V DC bias	From 18,000 USD
	Frequency characteristics	4294A Precision Impedance Analyzer	Fast and accurate measurement at any frequency in the 40 Hz to 110 MHz range Basic accuracy: 0.08 % Built-in 40 V DC bias	From 46,000 USD
Nanotechnology	IV characteristics	B1500A Semiconductor Device Analyzer	Minimum 0.1 fA extremely low current resolution Application test such as carbon nanotube available as standard	From 43,000 USD
Power device	Breakdown voltage			
	On-resistance measurement	B1505A Power Device Analyzer/ Curve Tracer	Single-box solution for IV measurements, from the sub-pA level to 1500 A/10 kV and high-voltage CV measurement up to 3000 V	From 90,000 USD
High voltage CV measurement	N1259A High Power Test Fixture	Safe and precise device testing assured with N1259A/N1265A Test Fixture		

An approximate price is a reference price of a typical product model. Please inquire with your Keysight Technologies, Inc. field engineer or sales representative for more information.

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus