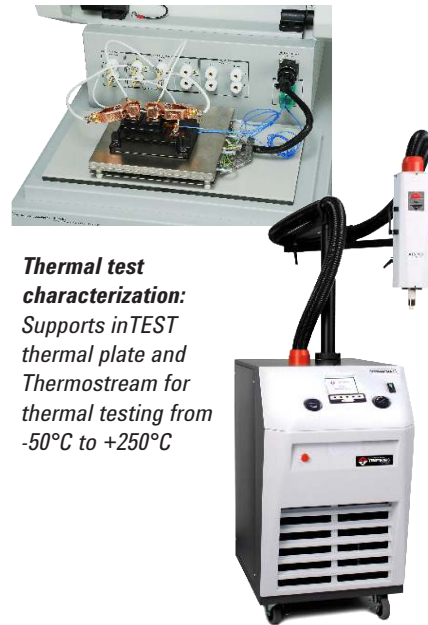


Keysight B1506A Power Device Analyzer for Circuit Design

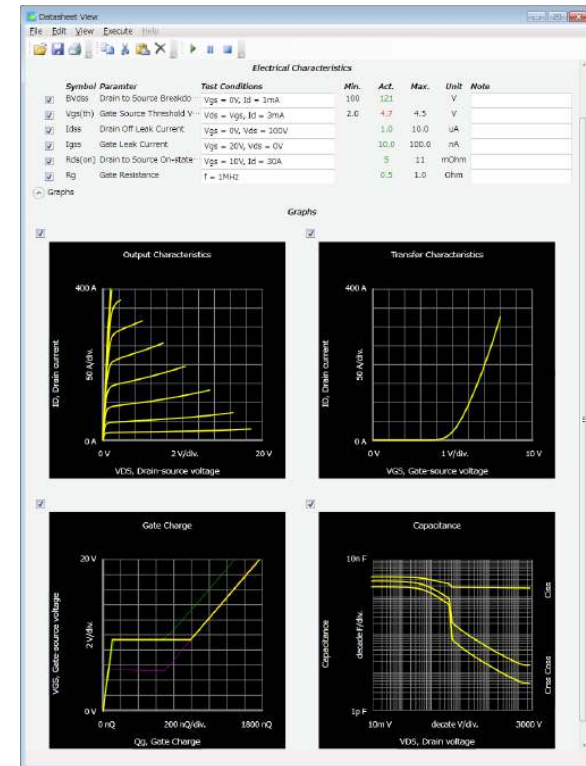
With one click obtain all key device parameters for power circuit design across a wide range of operation conditions.

Key Features

- Datasheet characterization mode provides quick and accurate measurement of all IV parameters (V_{th} , V_{sat} , R_{on} , Breakdown, Leakage, Output/Transfer curve, etc)
- Measure all three-terminal device capacitances (C_{iss} , C_{oss} , C_{rss} , C_{ies} , C_{oes} , C_{res} , R_g) without changing any cable connections
- Gate charge (Qg) measurement and Power loss calculation
- Wide voltage and current output range (3 kV/1500 A)
- Thermal test capability (-50°C to +250°C)



Thermal test characterization:
Supports inTEST thermal plate and Thermostream for thermal testing from -50°C to +250°C



Datasheet characterization mode:
Evaluate all key device parameters using a familiar datasheet format

Model	Description	Collector/Drain Max. output		Gate channel Max. output	Aux channel Max. output	Capacitance	Common characteristics & options	
		Voltage	Current					
B1506A-H21	20 A/3 kV/C-V/Gate Charge/ Thermal Fixture Package	± 3000 V	± 20 A	DCV: ±100 V DCI: ±100 mA Pulse I: ±1 A	DCV: ±100 V DCI: ±100 mA Pulse I: ±1 A	Gate: ± 100 V	Static characteristics V(th), Vge(th), Id-Vgs, Ic-Vge, gfs, Rds-on, Vce(sat), Igss, Iges, Idss, Ices, Id-Vds, Ic-Vce, BVds, BVces, etc Gate charge & capacitance characteristics Qg, Qg(th), Qgs, Qsw, Qsync, Qoss Capacitance characteristics Ciss, Coss, Coss_eff, Crss, Cgs, Cds, Cies, Coes, Cres, Cge, Cce, Rg B1506A-T01 Thermal Test Enclosure (Thermostream Compatible)	
B1506A-H51	500 A/3 kV/C-V/Gate Charge/ Thermal Fixture Package	± 3000 V	± 500 A			Collector/Drain: ± 3000 V		Frequency: 1 kHz to 1 MHz
B1506A-H71	1500 A/3 kV/C-V/Gate Charge/ Thermal Fixture Package	± 3000 V	± 1500 A			Range: 100 fF to 1 μF		

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A personalized view into the information most relevant to you.

Three-Year Warranty

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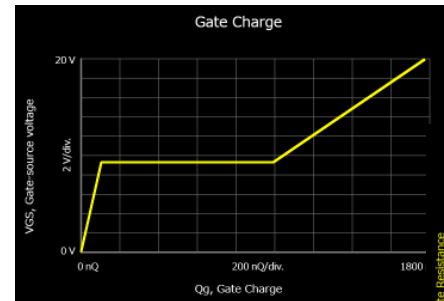
Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.



Keysight Assurance Plans

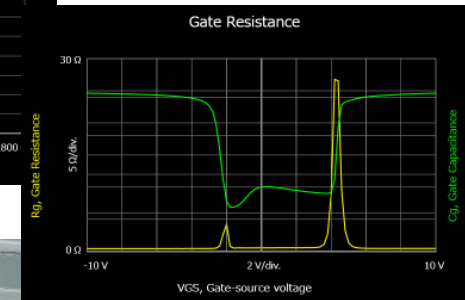
www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.



Qg and Rg:

Evaluate key power loss parameters



Device Adapter:

Simplified DUT connections eliminate operation errors