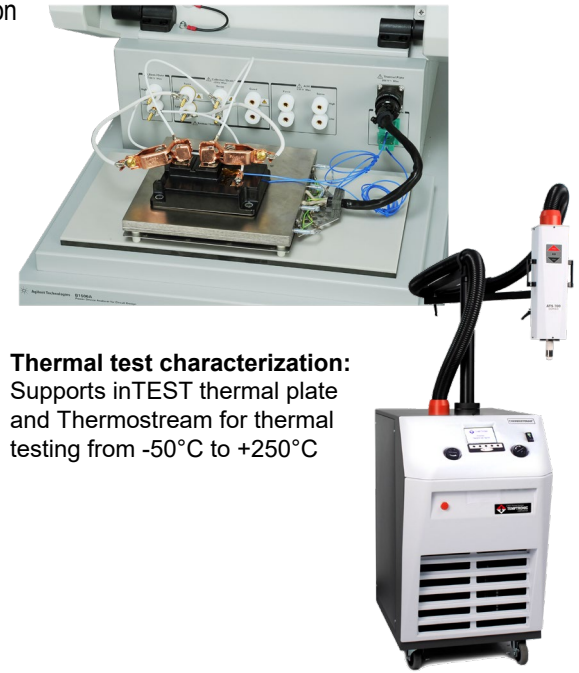
Keysight B1506A Power Device Analyzer for Circuit Design

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

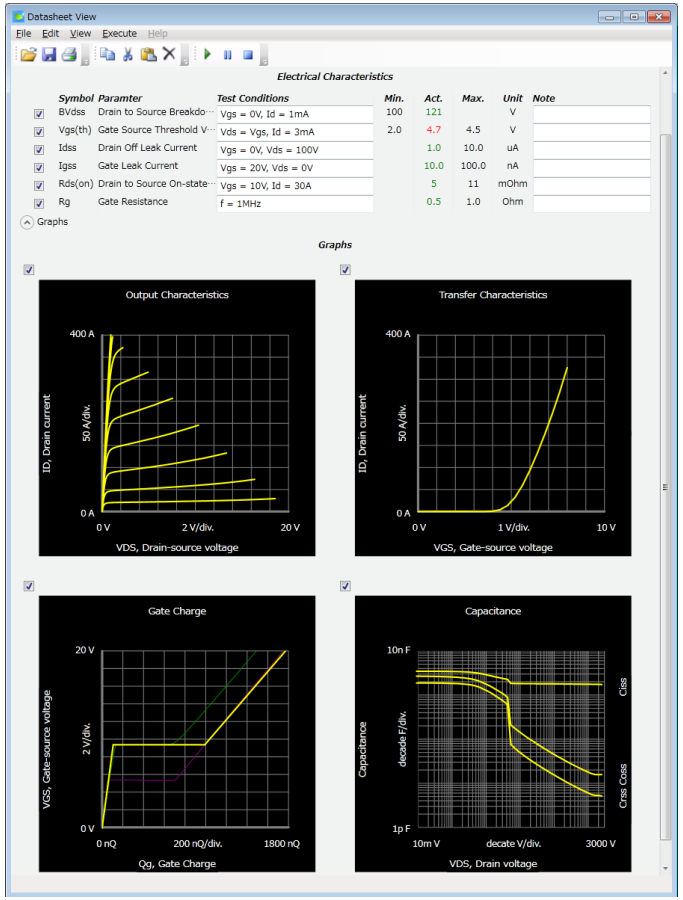
Key Features

- Datasheet characterization mode provides quick and accurate measurement of all IV parameters (Vth, Vsat, Ron, Breakdown, Leakage, Output/Transfer curve, etc)
- Measure all three-terminal device capacitances (Ciss, Coss, Crss, Cies, Coes, Cres, Rg) 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



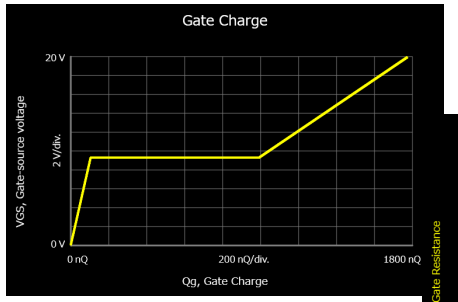
Datasheet characterization mode:
Evaluate all key device parameters using a familiar datasheet format

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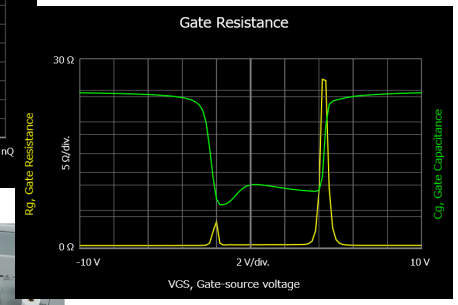
KEYSIGHT TECHNOLOGIES

Model	Desription	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 Collector/Drain: ± 3000 V Frequency: 1 kHz to 1 MHz Range: 100 fF to 1 µF	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				
B1506A-H71	1500 A/3 kV/C-V/Gate Charge/ Thermal Fixture Package	± 3000 V	± 1500 A				

www.keysight.com/find/b1506a



Qg and Rg:
Evaluate key power loss parameters





Device Adapter:
Simplified DUT connections eliminate operation errors

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