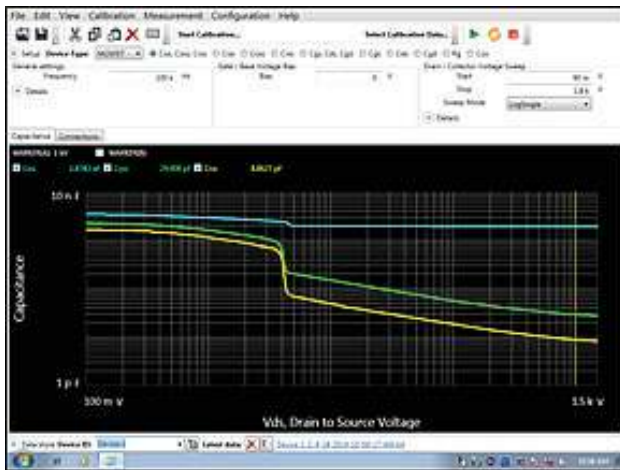


Keysight B1507A Power Device Capacitance Analyzer

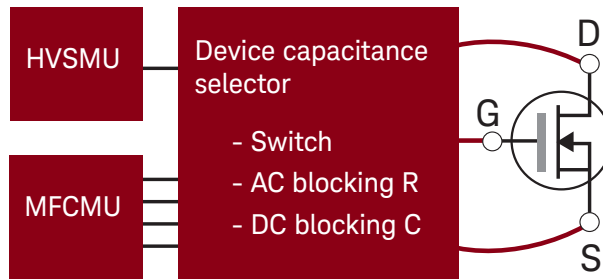
Automatically evaluate all power device capacitance parameters (including C_{iss} , C_{oss} , C_{rss} and R_g) under a wide range of operating voltages

Key Features

- Measuring transistor input, output and reverse transfer capacitances (C_{iss} , C_{oss} , C_{rss} , C_{ies} , C_{oes} , C_{res}) at high bias voltage
- Measure independent terminal capacitances (C_{gs} , C_{gd} , C_{ds} , C_{ge} , C_{gc} , C_{ce})
- Measure capacitances for normally-on devices such as SiC JFET or GaN FET
- Measure internal gate resistance (R_g)
- Wide operation voltage bias up to +/- 3kV



Ciss, Coss and Crss vs. Drain voltage



Capacitance selector supports fully automated Ciss, Coss and Crss measurement



B1507A with Easy Test Navigator software automatically evaluate power device capacitance parameters such as IGBTs and MOSFETs

Product Key Specifications

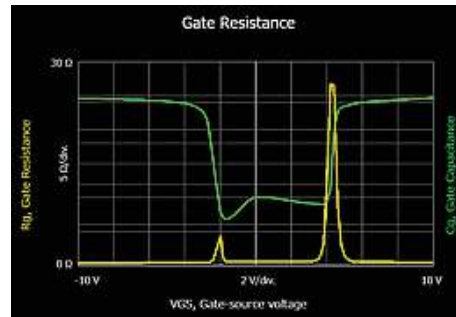
Frequency Range	Capacitance Range	Max Voltage	
		Collector/Drain	Gate
1kHz to 1MHz	10fF to 1uF	± 3000 V	± 100 V

Measurement Characteristics

Device capacitance	Ciss, Coss, Crss, Cgs, Cdg, Cds, Cies, Coes, Cres, Cge, Cgc, Cce
Gate leak	Igss, Iges
Output leak	Idss, Ices
Breakdown	BVds, BVces
Threshold voltage	V(th), Vge(th)



Simplified DUT connections eliminate operation errors



Gate resistance (R_g) and C_{iss} vs. gate voltage

Ordering Information

Model	Option	Description
B1507A		Power Device Capacitance Analyzer
	050	50Hz Line Frequency
	060	60Hz Line Frequency
	ABA	English User's Guide (paper manual)
	ABJ	Japanese User's Guide (paper manual)
	UK6	Commercial calibration certificate with test data
	A6J	ANSI Z540-1-1994 Calibration
B1507AU		Upgrade kit for B1507A
	F10	3-pin inline package socket module

Refer to Keysight.com website for more details.

www.keysight.com/find/b1507a

myKeysight www.keysight.com/find/mykeysight
A personalized view into the information most relevant to you.

Three-Year Warranty
www.keysight.com/find/ThreeYearWarranty
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.



Recommended service options

Additional three years of Return-to-Keysight warranty
 Additional five years of Return-to-Keysight warranty
 Additional three years of Return-to-Keysight calibrations
 For more information go to www.keysight.com/find/removealldoubt