

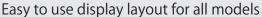
Curve Tracer CS-5000 Series

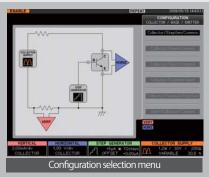
Suitable for various semiconductor specification measurement such as IGBTs, MOSFETs, transistors and diodes, etc.

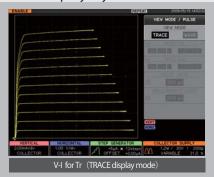
- Maximum peak voltage at 5000 V
- Maximum peak current at 1000 A (High-current mode including CS-5200 and CS-5300)
 - CS-5200 (Maximum at 400A)
 - CS-5300 (Maximum at 1000A)
- Equipped all models with LEAKAGE mode (Cursor resolution 1pA)
- USB port for display hardcopy, waveform data (CSV format) and measurement setup SAVE/RECALL
- LAN interface for Remote Control

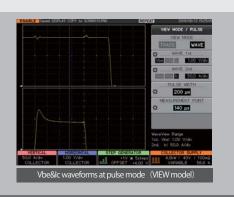


Curve Tracer CS-5100 / CS-5200 / CS-5300









Specifications		CS-5100		CS-5200		CS-5300	
Collector sup	ply						
Corrector	High voltage		High voltage i	mode: AC, +/- RECTI	FIED SIN, +/- DC, +/-	- LEAKAGE	
supply Mode	High current						
Maximum peak p		120	mW、1.2W、12W、120W、390V	V note)390W can l	oe selected excludin	g max. peak voltage	at 5,000V range
consumption selection		High current mode(400W,4kW) High current mode(400W,4kW,10					
High voltage mode			Maximum peak current(Maximum p	Max	aximum peak voltage		
			25mA (25mA)		5,000V (2,500V at AC)		
			750mA (1.5A)		300V		
			7.5A (15A)		30V		
Looping comper	nsation	Stravica	pacitance compensation between Col	lector and GND by ham	lware at high voltage m	node Software.compen	nsation is also availabl
Looping comper	isacion.	Juay co	pacital lee compensation services con	icetor arra Grib by riant	arrane der light vollage in		
High current mode (only for pulse)				Max. peak current	Max. peak voltage	Max. peak current	Max. peak voltage
		_		400A	40V	, , , , ,	40V
				40A	40V	400A 40A	40V 40V
Pulse width / measurement points		Pulse width is variable from 50μ s to 400μ s at 10μ s resolution, Measurement point can be set.					
Maximum data points		Measurement point can be set. 20 to 1000 points can be set per each traces.					
•		20 to 1000 points can be set per each traces.					
Step generate	Of	I	Δ 200	alituda ranga. FOn A	to 200m A at 1 2 F s	ton	
Current mode		Amplitude range: 50nA to 200mA at 1-2-5 step Maximum current: 10times of STEP AMPLITUDE setting, Offset: +/- 10times of STEP AMPLITUDE setting					
Voltage mode		Amplitude range: 50mV to 2V at 1-2-5 step Maximum voltage: 10times of STEP AMPLITUDE setting, Offset: +/- 10times of STEP AMPLITUDE setting					
Step rate		Staircase waveform: 2times of 50Hz or 60Hz or 60Hz at AC mode) Pulse: variable from 80ms to 1000ms					
		(50Hz or 60Hz at AC mode) (Lowest frequency limited by maximum peak power consumption setting)					
Pulse steps		Pules width variable from 50 μ s to 400 μ s at 10 μ s resolution, measurement point can be set.					
Number of steps	5			0 to	20steps		
AUX output							
			C	FF, variable from -4	0V to +40V at 100m	V step	
Range							
Range Vertical axis							
3			High voltage	e mode: 1 μ A/div to	2A/div (20steps) at	1-2-5 step	
3	t		High voltage —	High current mode: 1	2A/div (20steps) at 100mA/div to 50A/div t 1-2-5 step	1-2-5 step High current mode: 10 (10steps) a	
Vertical axis			_	High current mode: 1 (9steps) at	00mA/div to 50A/div	High current mode: 10 (10steps) a	
Vertical axis Collector current	at LEAKAGE)		_	High current mode: 1 (9steps) at	00mA/div to 50A/div t 1-2-5 step	High current mode: 10 (10steps) a	
Vertical axis Collector current Emitter current (a	at LEAKAGE)		1n.	High current mode: 1 (9steps) at A/div to 2mA/div (2	00mA/div to 50A/div t 1-2-5 step	High current mode: 10 (10 steps) a	
Vertical axis Collector current Emitter current (a	at LEAKAGE)		1n.	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to	00mA/div to 50A/div t 1-2-5 step 0steps) at 1-2-5 step	High current mode: 10 (10steps) a	t 1-2-5 step
Vertical axis Collector current Emitter current (a	at LEAKAGE) cis		— 1n. High voltage	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to	00mA/div to 50A/div t 1-2-5 step 0steps) at 1-2-5 step o 500V/div, (13steps, mode: 50mV/div to	High current mode: 10 (10steps) a	t 1-2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo	at LEAKAGE) kis e		— 1n. High voltage	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current	00mA/div to 50A/div t 1-2-5 step 0steps) at 1-2-5 step o 500V/div, (13steps, mode: 50mV/div to	High current mode: 10 (10steps) a	t 1-2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo General speci	at LEAKAGE) kis e		— 1n. High voltage — 50	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current mV/div to 5V/div (7	00mA/div to 50A/div t 1-2-5 step 0steps) at 1-2-5 step 0 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step	High current mode: 10 (10steps) at 1-2-5 step 5V/div (7steps) at 1-	t 1-2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo General speci	at LEAKAGE) kis e oltage ifications		— 1n. High voltage — 50	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current mV/div to 5V/div (7	00mA/div to 50A/div t 1-2-5 step 0steps) at 1-2-5 step o 500V/div, (13steps, mode: 50mV/div to	High current mode: 10 (10steps) at 1-2-5 step 5V/div (7steps) at 1-2-15 step 1	t 1-2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo General speci	at LEAKAGE) kis e oltage ifications		— 1n. High voltage — 50	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current mV/div to 5V/div (7	oomA/div to 50A/div t 1-2-5 step Osteps) at 1-2-5 step o 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step (SVGA 800x600pixe etups and 4 REF wave	High current mode: 10 (10steps) at 1-2-5 step 5V/div (7steps) at 1-2-15 step sels)	2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo General speci	at LEAKAGE) kis e oltage ifications		High voltage — 50 8.4	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current mV/div to 5V/div (7	oomA/div to 50A/div t 1-2-5 step Osteps) at 1-2-5 step o 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step (SVGA 800x600pixe etups and 4 REF wave call, hardcopy of displa	High current mode: 10 (10steps) at 1-2-5 step 5V/div (7steps) at 1-2-15 step sels)	2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo General speci Display Date save / Recal	at LEAKAGE) kis e oltage ifications		High voltage — 50 8.4 Interest External: USB port for setu	High current mode: 1 (9steps) at (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current mV/div to 5V/div (7 e inch color TFT-LCD rnal memory: 256 seps, waveform save&re	o 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step o 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step (SVGA 800x600pixe etups and 4 REF wave call, hardcopy of displa	High current mode: 10 (10steps) at 1-2-5 step 5V/div (7steps) at 1-2-15 step sels)	2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo General speci Display Date save / Recal USB port	at LEAKAGE) kis e oltage ifications		High voltage — 50 8.4 Inter External: USB port for setu	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current mV/div to 5V/div (7 cinch color TFT-LCD rnal memory: 256 se ps, waveform save&re 1port (U	o 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step o 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step (SVGA 800x600pixe etups and 4 REF wave call, hardcopy of displa	High current mode: 10 (10steps) ar (10steps) ar (10steps) at 1-2-5 step 5V/div (7steps) at 1-2-15 step sels) eforms	2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo General speci Display Date save / Recal USB port Remote control	at LEAKAGE) kis e oltage ifications		High voltage High voltage Solution 8.4 Inter External: USB port for seturals Rer AC90V CS-3	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current mV/div to 5V/div (7 inch color TFT-LCD mal memory: 256 seps, waveform save&re 1port (U mote control with LAN -AC264V single pha 02*1 (Fixture M), CS-	o 500V/div, (13steps) at 1-2-5 step o 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step (SVGA 800x600pixe) etups and 4 REF wave call, hardcopy of displations (SB1.1)	High current mode: 10 (10steps) at 1-2-5 step 5V/div (7steps) at 1-2-5 step sels) eforms by into removable men ovable men ovable.	2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo General speci Display Date save / Recal USB port Remote control AC power supply/ Pow Accessories	at LEAKAGE) cis e oltage ifications II	envir	High voltage High voltage 50 8.4 Inter External: USB port for setu Rer AC90V CS-3 Oper	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current mV/div to 5V/div (7 inch color TFT-LCD mal memory: 256 seps, waveform save&re 1port (U mote control with LAN -AC264V single pha 02*1 (Fixture M), CS-	o 500V/div, (13steps) at 1-2-5 step o 500V/div, (13steps) at 1-2-5 step o 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step (SVGA 800x600pixe etups and 4 REF wave call, hardcopy of displating the steps of	High current mode: 10 (10steps) at 1-2-5 step 5V/div (7steps) at 1-2-5 step sels) eforms by into removable men ovable men ovable.	2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo General speci Display Date save / Recal USB port Remote control AC power supply/ Pow Accessories Dimensions, v	at LEAKAGE) cis e oltage ifications II		High voltage High voltage So 8.4 Inter External: USB port for setu Rer AC90V CS-3 Oper	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current mV/div to 5V/div (7 inch color TFT-LCD mal memory: 256 seps, waveform save&re 1port (U mote control with LAN -AC264V single pha 02*1 (Fixture M), CS-	o 500V/div, (13steps) o 500V/div, (13steps) at 1-2-5 step o 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step (SVGA 800x600pixe etups and 4 REF wave call, hardcopy of displations (100BASE-TX) is e, 45Hz to 66Hz, 50-500*1 (blank adaptore set*1, Power cables)	High current mode: 10 (10steps) at 1-2-5 step 5V/div (7steps) at 1- els) eforms by into removable men 0VA br), e*1	2-5 step
Vertical axis Collector current Emitter current (a Horizontal ax Collector voltage Base / Emitter vo General speci Display Date save / Recal USB port Remote control AC power supply/ Pow Accessories	at LEAKAGE) cis e oltage ifications II	Appr	High voltage High voltage 50 8.4 Inter External: USB port for setu Rer AC90V CS-3 Oper	High current mode: 1 (9steps) at A/div to 2mA/div (2 e mode: 50mV/div to High current mV/div to 5V/div (7 inch color TFT-LCD mal memory: 256 seps, waveform save&re 1port (U mote control with LAN -AC264V single pha 02*1 (Fixture M), CS-	o 500V/div, (13steps) o 500V/div, (13steps) at 1-2-5 step o 500V/div, (13steps) mode: 50mV/div to steps) at 1-2-5 step (SVGA 800x600pixe etups and 4 REF wave call, hardcopy of displating the steps of	High current mode: 10 (10steps) at 1-2-5 step 5V/div (7steps) at 1-2-5 step sels) eforms by into removable men ovable men ovable.	2-5 step



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IWATSU ELECTRIC CO., LTD.

International Dept. 7-41, Kugayama 1-Chome, Suginami-ku, Tokyo, 168-8501 Japan Tel: +81-3-5370-5483 Fax: +81-3-5370-5230

Manufactured by IWATSU TEST INSTRUMENTS CORP.

Note) The above specifications are subject to change without notice.