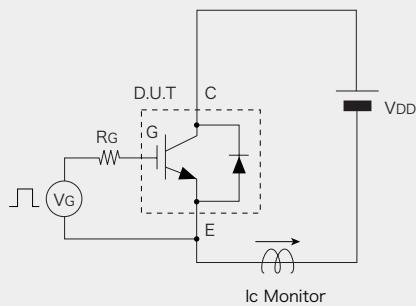


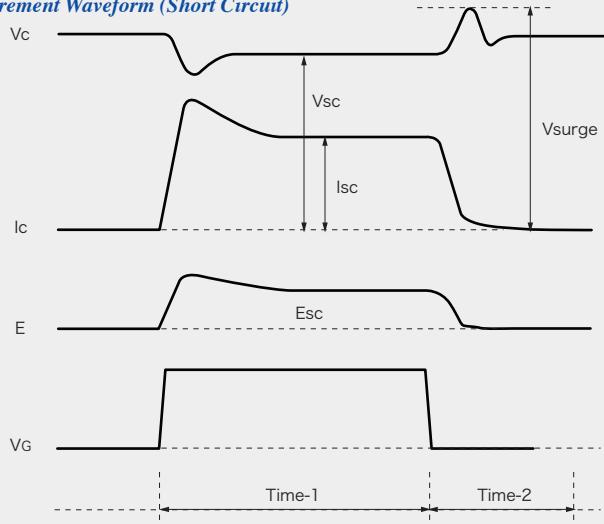
SWITCHING TIME TEST SYSTEM スイッチングタイムテストシステム SWQS2050ZZ

2000V
5000A
(Short Circuit)

- SWQS2050ZZ has high-power specification of 2000V/ 1000A (5000A for short-circuit measurement) and is a system that supports switching characteristic, short-circuit measurement as well as QG measurement. Measuring section uses a thermo stream and can be tested in environments ranging from minus temperatures to high temperatures.
- SWQS2050ZZZ は 2000V/1000A (短絡測定時 5000A) のハイパワー仕様で、スイッチング特性、短絡測定の他、QG 測定まで対応したシステムです。測定部をサーモストリームを使用し、マイナス温度から高温までの環境で試験することができます。

**Fundamental Test Circuit (Short Circuit)**

I_c current is controlled by V_G voltage.
I_c電流値はV_G電圧で制御

Measurement Waveform (Short Circuit)**MODEL****SWQS2050ZZ****TEST ITEMS**

R-LOAD/L-LOAD SWITCHING

I_c(I_D), t_{d(on)}, t_r, t_{d(off)}, t_f, e(on), e(off)

di/dt

I_{rr}, t_{rr}, Q_{rr}, d_i/dt, d_r/dt, V_{surge}

AVALANCHE

I_{ava}, V_{ava}, E_{ava}, V_{surge}

QG

Q_{gs}, Q_{gd}, Q_g, V_{th}

SHORT CIRCUIT ASO

V_{sc}, I_{sc}, V_{surge}, E_{sc}**SETTING RANGE**

MEASURABLE DEVICE(Nch Only)

MOS-FET, IGBT, DIODE, SiC/GaN

MEASUREMENT RANGE

000.0 μs ~ 9999 μs

V_{DD}

20V ~ 2000V

1V STEP

I_D(Limit)

1A ~ 1000A (Short Circuit: 5000A)

1A STEP

V_{GP}/V_{GN}(V_{GF}/V_{GR})

±00.00V ~ ±30.00V

0.01V STEP

I_G

0.1mA, 1mA, 10mA (each select)

Time-1

0000.0 μs ~ 9999.9 μs

0.1 μs STEP

Time-2

000.0 μs ~ 999.9 μs

0.1 μs STEP

Time-3

00.0 μs ~ 99.9 μs

0.1 μs STEP

Time-4

0000 μs ~ 9999 μs

1 μs STEP

BINNING

OPEN/SHORT CHECK(IGBT)

VG ON: V_{CE} ≥ 10V → OPEN, VG OFF: V_{CE} ≤ 1/2 V_{DD} → SHORT

OPEN/SHORT CHECK(DIODE)

V_F ≥ 5V → OPEN, V_{KA} ≤ 10V → SHORT

BIN INDICATION

ERROR, PASS, LIMIT-FAIL, OPEN, SHORT

DIMENSIONS & WEIGHT

POWER CONTROL UNIT

550(W) × 860(D) × 1700(H) ... 290kg

MEASUREMENT UNIT

723(W) × 1000(D) × 2352(H) ... 385kg