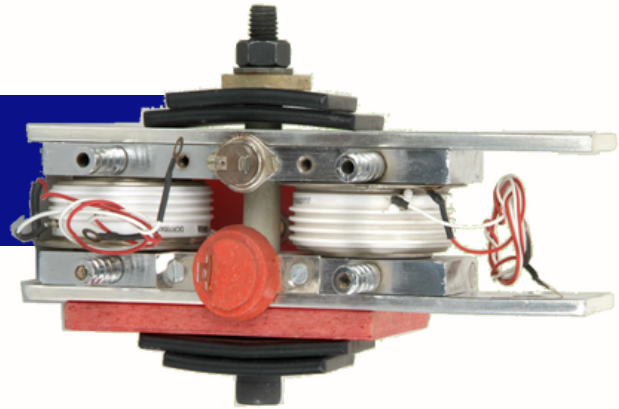


AC SWITCH (WATER COOLED)

2XDCR1004SD



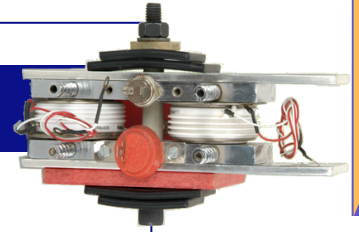
FEATURES

- 👉 **Non-Isolated water cooled blocks**
- 👉 **Provided with thermostat & M.O.V.**
- 👉 **Two thyristors connected in anti-parallel configuration**

TYPICAL APPLICATIONS

- 👉 **Resistance welding equipment**
- 👉 **Electroplating equipment**
- 👉 **Induction heating equipment**

AC SWITCH
(WATER COOLED)
2XDCR1004SD



TECHNICAL DATA

DEVICE TYPE

V_{DRM} / V_{RRM}
(V)

V_{RSM}
(V)

2XDCR1004SD1515	1500	1600
2XDCR1004SD1717	1700	1800

SYMBOL	CONDITIONS	VALUES
I_{RMS}	50 Hz, water flow -4L/min, Water temp = 60°C	2374 amp.
V_{TM}	Maximum peak forward Voltage drop @ 1000AP	1.625 V
I_{TSM}	Maximum peak one cycle (non-rep.) surge current 10 msec	21.0 KA
I^2t	Max. I^2t rating (non-rep.) for 10 msec	2210 x 10 ³ A ² s
I_{RRM}/I_{DRM}	Peak reverse current at $T_{vj} = 125^\circ\text{C}$	50 mA
I_{GT} V_{GT} di/dt dv/dt		200 mA 3.5 V 500 A/us 1000 V/us
V_0 R_0	$T_{vj}=\text{max}$ $T_{vj}=\text{max}$	0.86V 0.25 mΩ
$R_{th(w)}$ T_{vj} T_{stg}	Junction temperature Storage temperature	0.12°C/W 125 °C 125 °C
Mounting force		20 KN
Weight	Approx.	4.5 Kg
Package Outline		IR-39

**AC SWITCH
(WATER COOLED)
2XD CR1004SD**

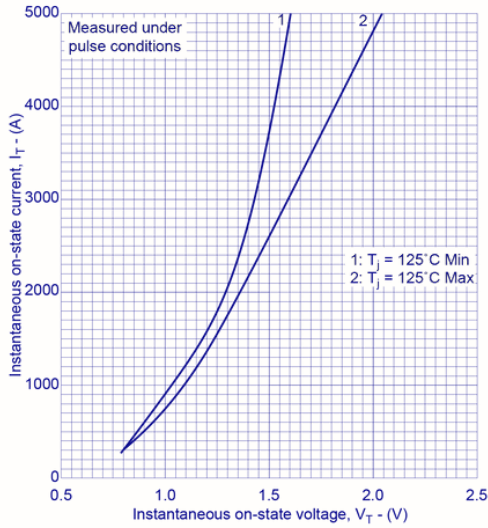
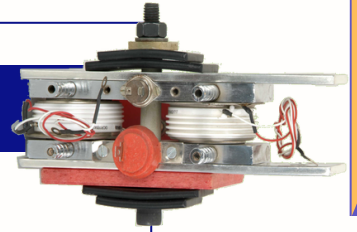


FIG. 1 maximum (limit) on-state characteristics

FIG. 2 dissipation curves

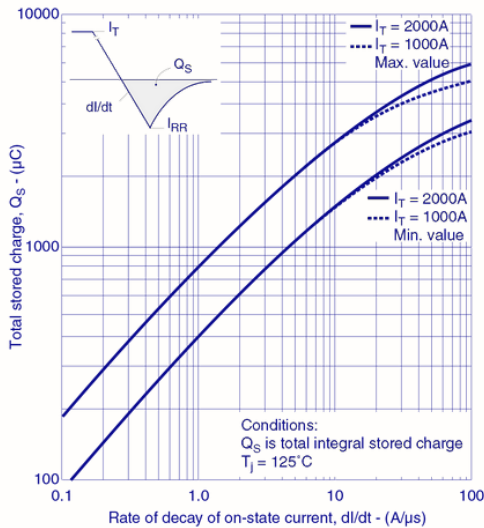
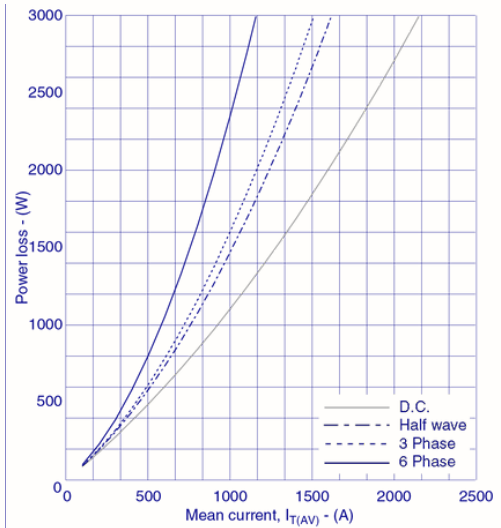


FIG. 3 stored charge

**AC SWITCH
(WATER COOLED)
2XDCR1004SD**

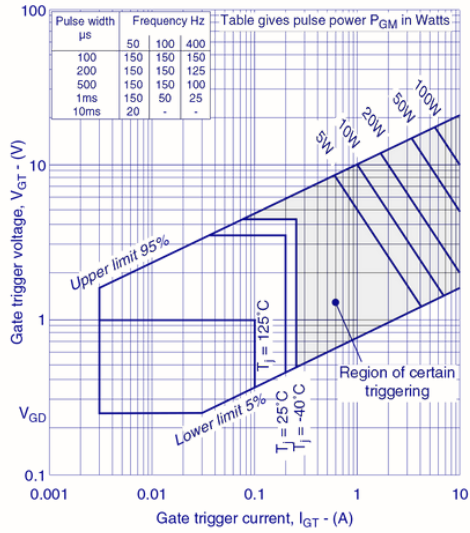
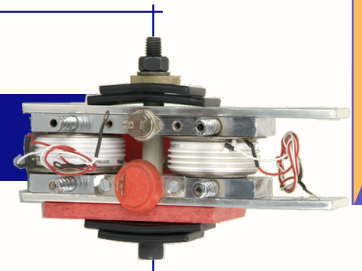


FIG. 4 gate characteristics

FIG. 5 transient thermal impedance-junction to case

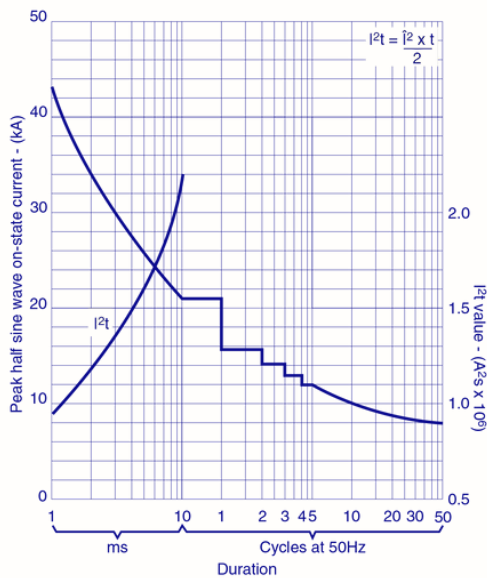
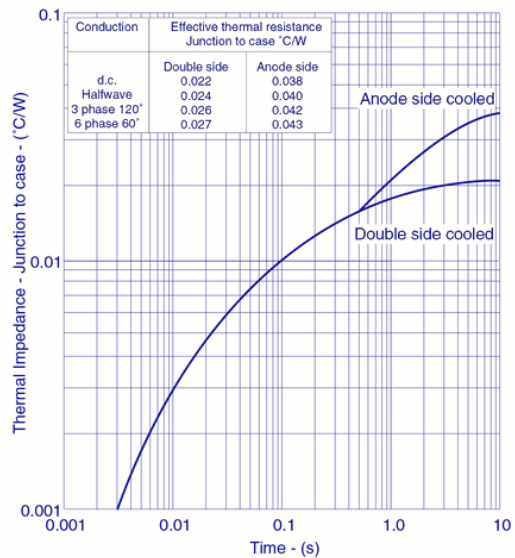
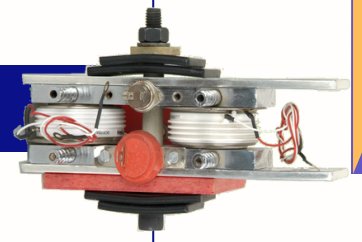


FIG. 6 surge (non-repetitive) on-state current vs time (with 50% V_{RRM} at $T_{case} = 125^\circ C$)

AC SWITCH
(WATER COOLED)

2XDCR1004SD



PACKAGE OUTLINE

GENERAL TOLERANCE : $\pm 0.5\text{mm}$

