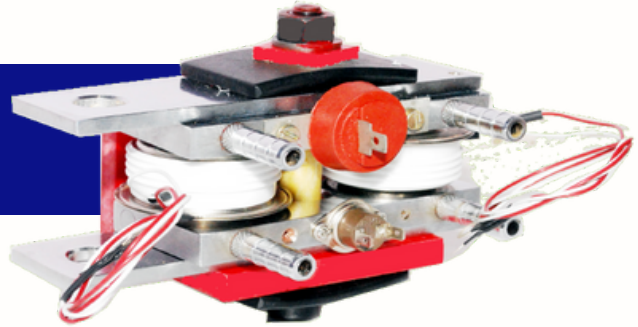


AC SWITCH (WATER COOLED)

2XDCR604SE



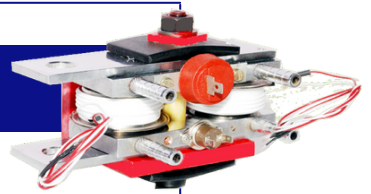
FEATURES

- ☞ **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)
2XDCR604SE



TECHNICAL DATA

DEVICE TYPE	V_{DRM} / V_{RRM} (V)	V_{RSM} (V)	
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2XDCR604SE1515	1500	1600	
2XDCR604SE1717	1700	1800	

SYMBOL	CONDITIONS	VALUES
I_{RMS}	50 Hz, water flow -4L/min, Water temp = 60°C	1109 amp.
V_{TM}	Maximum peak forward Voltage drop @ 1000AP	1.625 V
I_{TSM}	Maximum peak one cycle (non-rep.) surge current 10 msec	6.5 KA
I^2t	Max. I^2t rating (non-rep.) for 10 msec	$210 \times 10^3 \text{ A}^2\text{s}$
I_{RRM}/I_{DRM}	Peak reverse current at $T_{vj} = 125^\circ\text{C}$	30 mA
I_{GT} V_{GT} di/dt dv/dt		150 mA 3.0 V 350 A/us 1000 V/us
V_0 R_0	$T_{vj} = \text{max}$ $T_{vj} = \text{max}$	0.93V 0.667 mΩ
$R_{th(w)}$ T_{vj} T_{stg}	Junction temperature Storage temperature	0.18°C/W 125 °C 125 °C
Mounting force		8 KN
Weight	Approx.	2.5 Kg
Package Outline		IR-37

**AC SWITCH
(WATER COOLED)
2XDCR604SE**

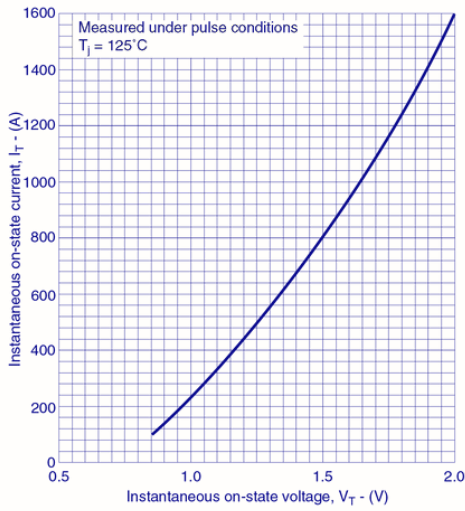
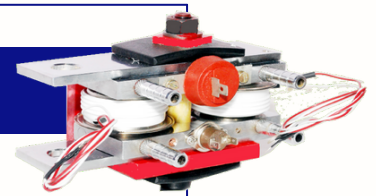


FIG. 1 maximum (limit) on-state characteristics

FIG. 2 dissipation curves

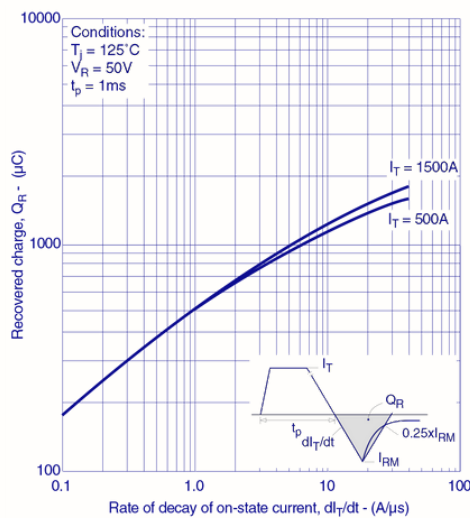
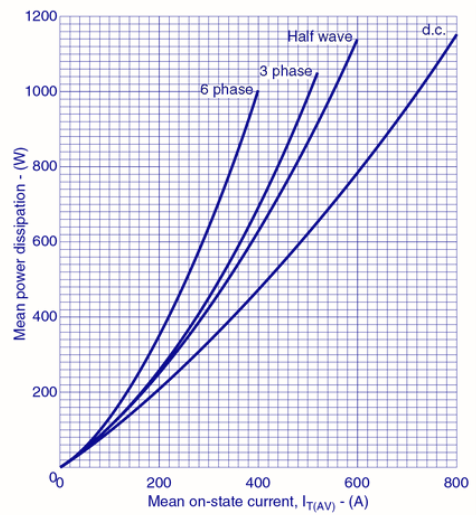


FIG. 3 recovered charge

**AC SWITCH
(WATER COOLED)
2XDCR604SE**

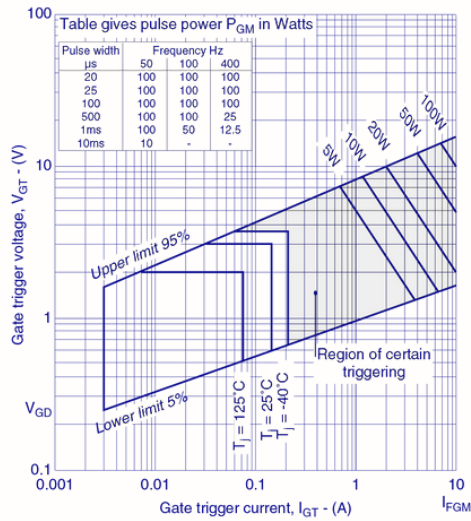
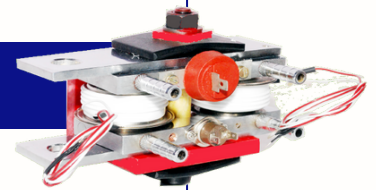


FIG. 4 gate characteristics

FIG. 5 maximum (limit) transient thermal impedance-junction to case

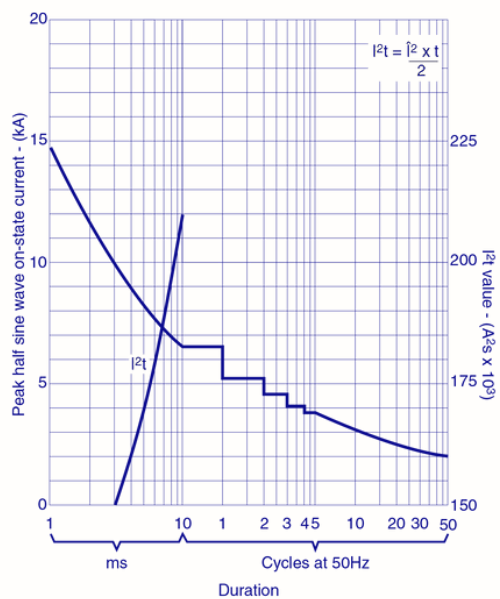
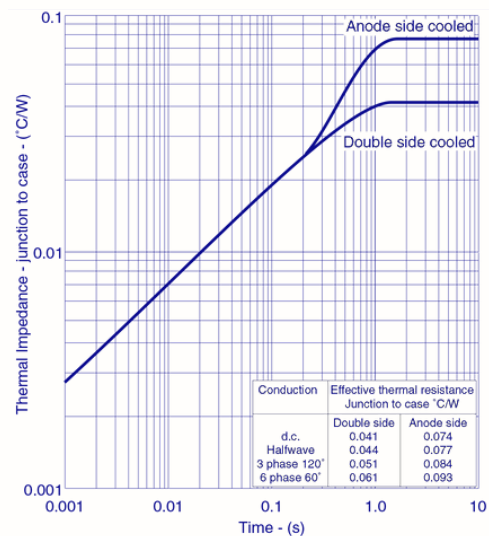
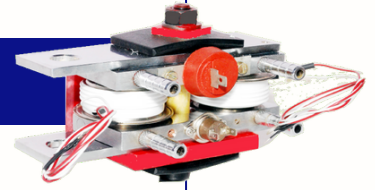


FIG. 6 surge (non-repetitive) on-state current vs time (with 50% V_{RRM} at T_{case} 125°C)

AC SWITCH
(WATER COOLED)

2XDCR604SE



PACKAGE OUTLINE

