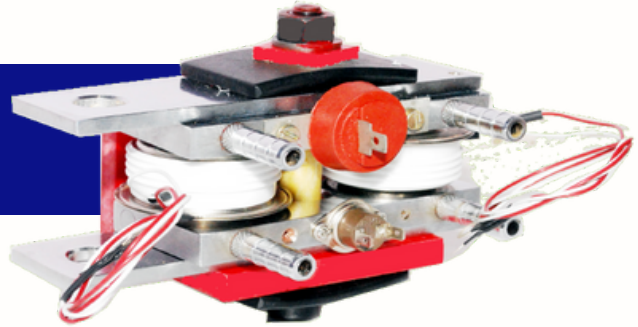


AC SWITCH (WATER COOLED)

2XDCR504ST



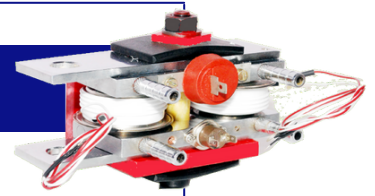
FEATURES

- 👉 **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)
2XDCR504ST



TECHNICAL DATA

DEVICE TYPE	V_{DRM} / V_{RRM} (V)	V_{RSM} (V)
--------------------	---	-------------------------------

2XDCR504ST1515	1500	1600
2XDCR504ST1717	1700	1800

SYMBOL	CONDITIONS	VALUES
I_{RMS}	50 Hz, water flow -4L/min, Water temp = 60°C	717 amp.
V_{TM}	Maximum peak forward Voltage drop @ 1000AP	1.75 V
I_{TSM}	Maximum peak one cycle (non-rep.) surge current 10 msec	5.5 KA
I²t	Max. I ² t rating (non-rep.) for 10 msec	150x10 ³ A ² s
I_{RRM}/I_{DRM}	Peak reverse current at T _{vj} = 125°C	30 mA
I_{GT} V_{GT} di/dt dv/dt		150 mA 3.0 V 700 A/us 1000 V/us
V₀ R₀	T _{vj} =max T _{vj} =max	1.05V 0.8mΩ
R_{th(w)} T_{vj} T_{stg}	Junction temperature Storage temperature	0.3 °C/W 125 °C 125 °C
Mounting force		4.5 KN
Weight	Approx.	2.5 Kg
Package Outline		IR-37

**AC SWITCH
(WATER COOLED)
2XDCR504ST**

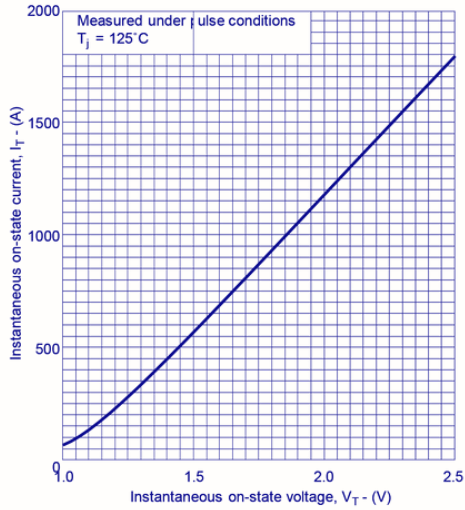
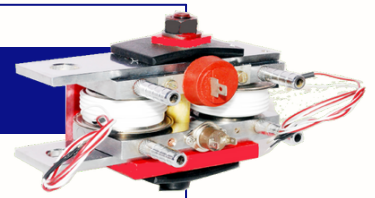


FIG. 1 maximum (limit) on-state characteristics

FIG. 2 dissipation curves

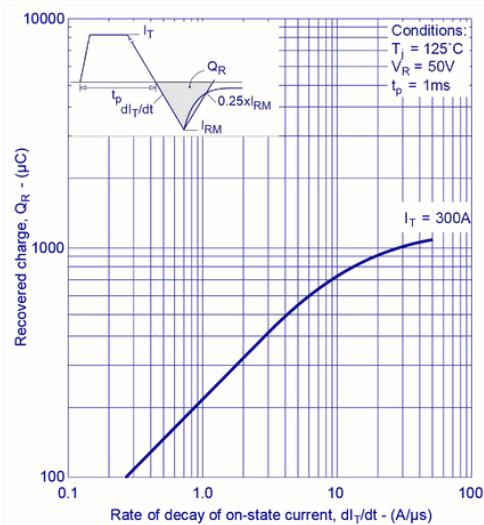
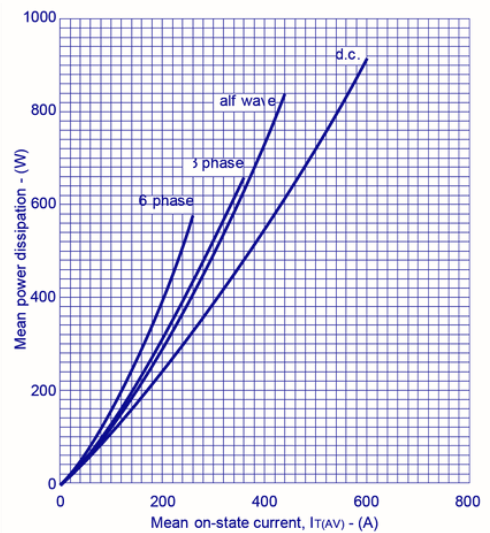


FIG. 3 recovered charge

**AC SWITCH
(WATER COOLED)
2XDCR504ST**

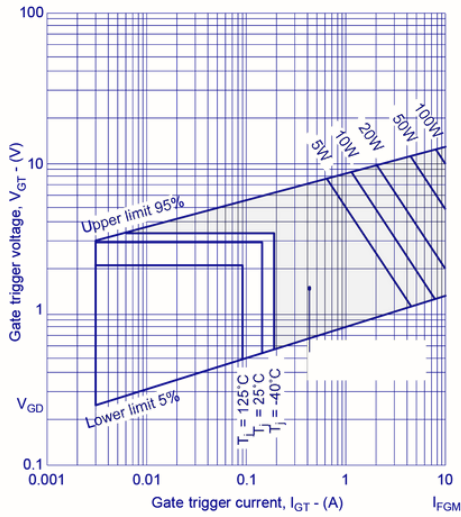
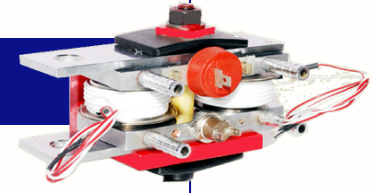


FIG. 4 gate characteristics

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

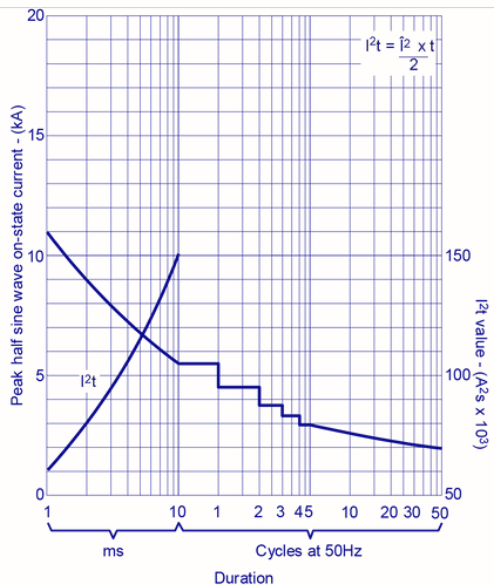
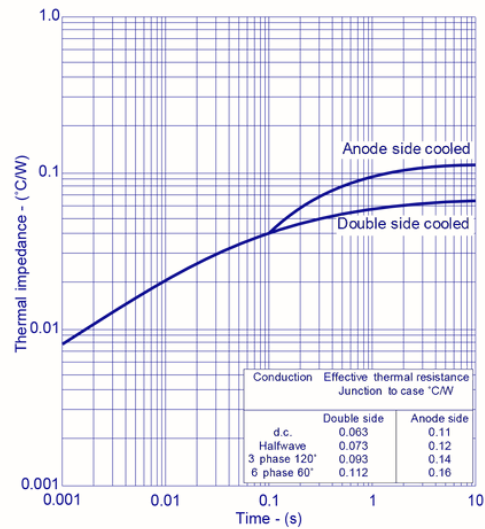
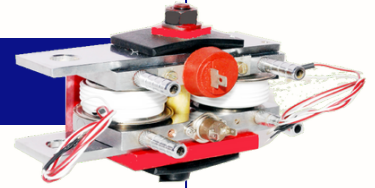


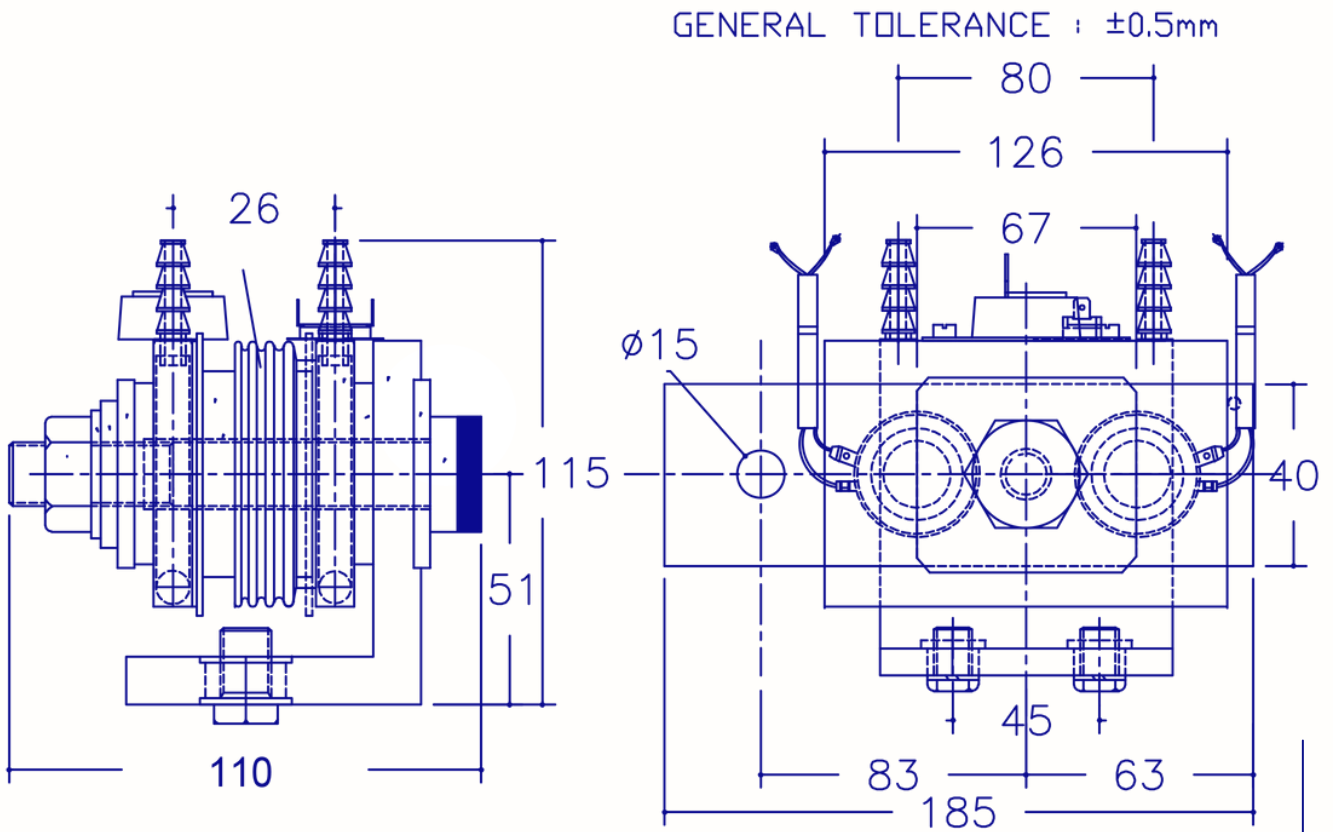
FIG. 6 surge (non-repetitive) on-state current vs time (with 50% V_{RRM} at $T_{case} 125^{\circ}C$)

AC SWITCH
(WATER COOLED)

2XDCR504ST



PACKAGE OUTLINE



all dimensions in mm