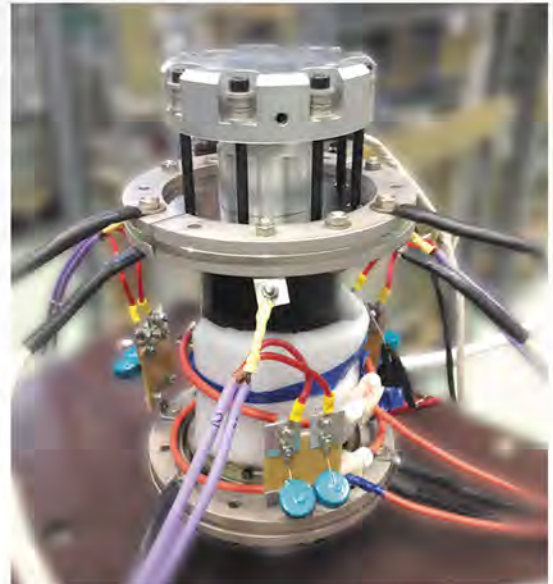


RSD Discharge Switches

PULSED POWER

KEY FEATURES

- ◆ *Two-electrode discharge switches on the base of reverse switched dynistors (RSD)*
- ◆ *Reverse-injection triggering*
- ◆ *Fast and homogeneous (like diode) turn-on with low switching losses*
- ◆ *High effectiveness and reliability by commutation of short current pulses with duration from few up to some hundreds microseconds with very high di/dt*
- ◆ *Triggering possibility of one or some connected in series or in parallel switches by means of single control block*



Type	Chip diameter mm	V _{DC} kV	I _{TRM}		I ² t		I _{RCRM} kA	(di/dt) _{cr} kA/μs	(dv/dt) _{cr} V/μs	n [*] pulse	T ^{**} minute		
			t _p =500 μs		t _p =1-2 μs						I _{TRM}	0,6I _{TRM}	0,4I _{TRM}
			kA	A ² s10 ⁶	kA	kA/μs							
KRD-50-25	40	20-25	50	0,63	0,6	100	1000	10 ⁴	10	1	0,5		
KRD-80-25	50	20-25	80	1,6	1,0	100	1000	10 ⁴	10	1	0,5		
KRD-100-25	56	20-25	100	2,5	1,5	100	1000	10 ⁴	10	1	0,5		
KRD-125-25	63	20-25	125	3,9	2,0	100	1000	10 ⁴	10	1	0,5		
KRD-250-25	76	20-25	250	15,6	3,5	100	1000	10 ⁴	10	1	0,5		
KRD-320-25	90	20-25	320	25,6	4,5	100	1000	10 ⁴	10	1	0,5		
KRD-400-25	100	20-25	400	40	5,5	100	1000	10 ⁴	10	1	0,5		

* n = 10⁵ by I=0,6 I_{TRM}; n = 10⁶ by I=0,4 I_{TRM}

** T - period of pulse repetition

TYPICAL APPLICATIONS

- ◆ *Pulse power engineering and high power electronics*
- ◆ *Condenser batteries with large stored energy*
- ◆ *Supply systems of power lasers and electromagnets*
- ◆ *Industry equipment for electro-pulse technologies*
- ◆ *Switches in microsecond and sub-millisecond ranges*



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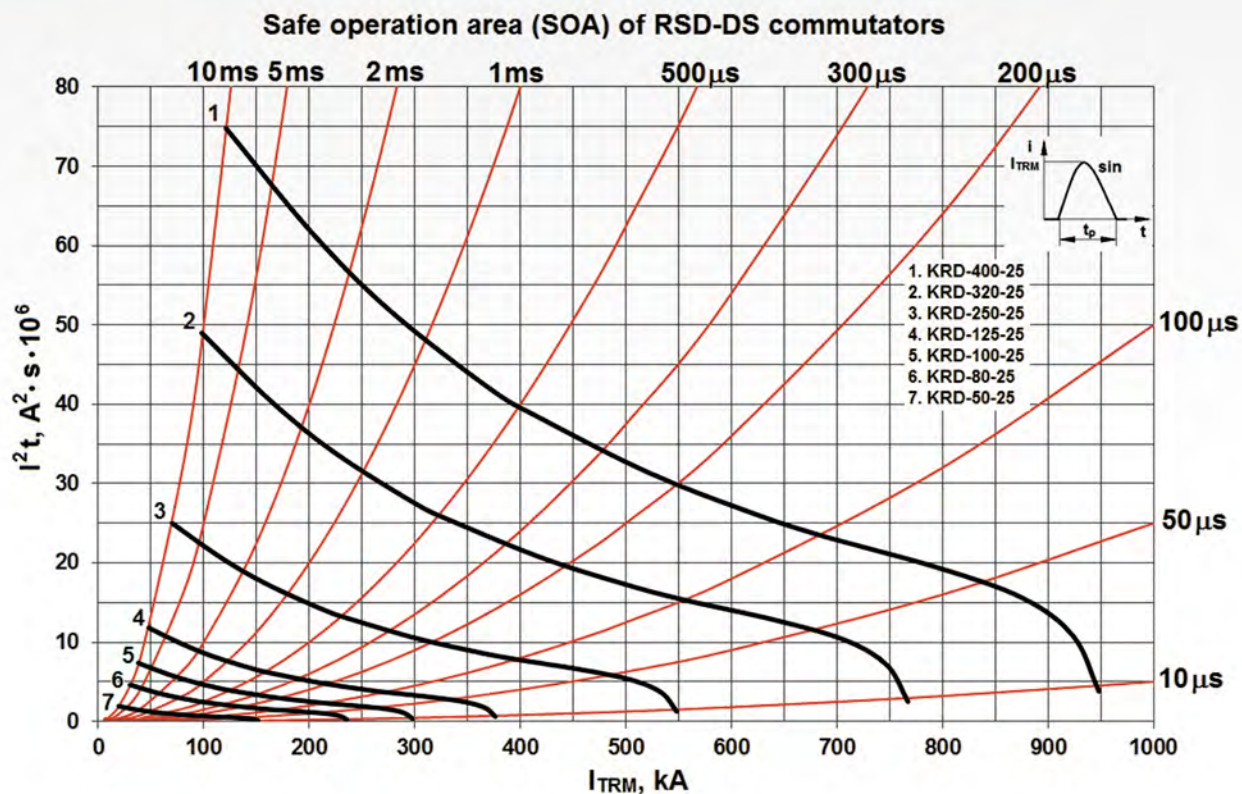
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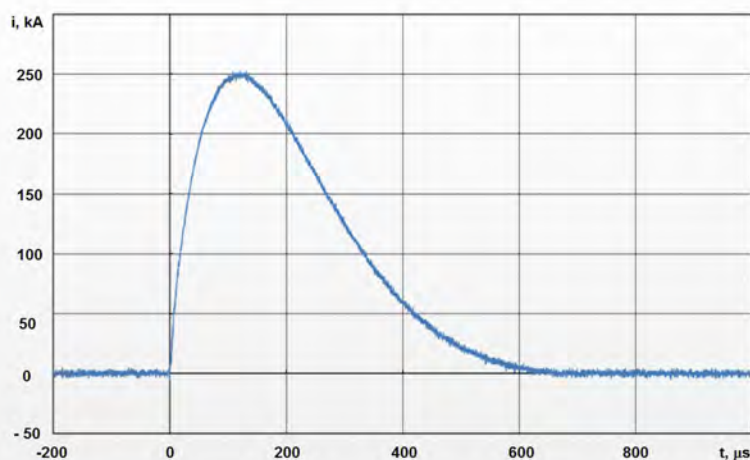
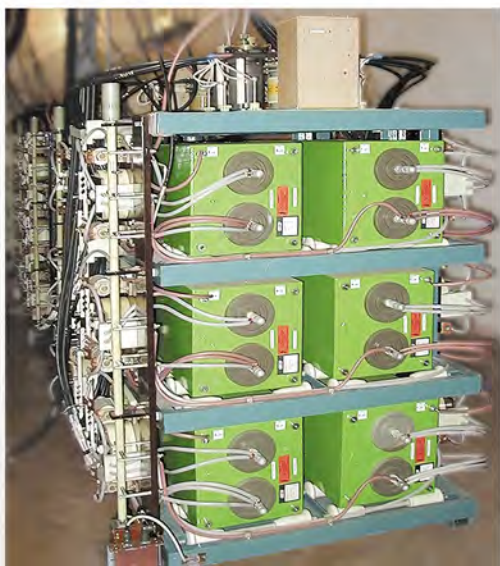
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RSD Discharge Switches

PULSED POWER



APPLICATION EXAMPLE



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