

Light Triggered Thyristors, Pulsed Power Light Triggered Thyristors



Features

- Light triggering
- Self-protection functions
- High interference resistance
- Isolated gate circuit
- Suitable for parallel and in series connection

Applications

- HVDC transmission equipment
- Reactive power compensators
- High voltage drives
- High power pulse generators
- Different DC and AC power equipment

Light Triggered Thyristors

Type	V _{BO} V	V _{DRM} V	V _{RRM} V	I _{T(AV)} @70°C A	I _{TSM} @10ms kA	V _{T(TO)} @T _{VM} V	r _T @T _{VM} mΩ	(di _T /dt) _{cr} @T _{VM} A/μs	(dv _D /dt) _{cr} @T _{VM} V/μs	P _{LM} mW	t _q (typ) μs	R _{th(j-c)} °C/W	T _{VM} °C	Outline
TL353 -630	6200 - 6600	6000- 6400	6000- 7000	790	12	1.20	1.00	300	2000	40	630	0.0200	120	PTO54
TL273 -1000	6200 - 6600	6000- 6400	6000- 7000	1360	24	1.20	0.55	300	2000	40	630	0.0120	120	PTO74
TL183 -2000	6200 - 6600	6000- 6400	6000- 7000	2115	40	1.20	0.35	300	2000	40	630	0.0078	120	PTO84
TL193 -2500	7000 - 7800	6800- 7600	7200- 8000	2620	55	1.22	0.28	300	2000	40	630	0.0067	120	PTO95

Pulsed Power Light Triggered Thyristors

Type	V _D V _R V	V _{DRM} V	V _{RRM} V	I _{TRM} @sin180°el		V _{T(TO)} V	r _T mΩ	(di _T /dt) _{cr}		t _q (typ) μs	(dv _D /dt) _{cr} V/μs	R _{th(j-c)} °C/W	F kN	Outline
				@700μs	@10ms			@1Hz	@50Hz					
				kA	kA			A/μs	A/μs					
TL193 -2500	300 0	4400- 5000	4400- 5000	100	30	1.15	0.16	5000	1000	630	1600 2000	0.0065	120	PTO95