

Phase control thyristors

Features

- Hermetic metal cases with ceramic insulator.
- Capsule packages for double-sided cooling.
- Amplifying gates.
- Optimized for low on-state losses.
- Suitable for series and parallel connections, narrow Q_{rr} and V_{TM} deflection.

Typical applications

- DC motor control.
- Controlled rectifiers.
- AC controllers.
- “Soft” starters for AC motors.
- High voltage SM-drives up to 30 MW.



Phase control thyristors 32MM

Type	V_{DRM} V_{RRM} V	I_{DRM} I_{RRM} mA	$I_{T(AV)}$ ($T_c, ^\circ C$) A	I_{TRMS} ($T_c=70^\circ C$) A	I_{TSM} 10ms kA	i^2t A^2S10^3	V_{TM}/I_{TM} V/A	$V_{T(TO)}$ V	r_T m Ω	$(di_T/dt)_{crit}$ A/ μS	$(du_D/dt)_{crit}$ V/ μS	V_{GT} V	I_{GT} mA	T_{jmax} $^\circ C$	$R_{th(j-c)}$ $^\circ C/W$	t_q (typ.) μS	F kN	w kg	Fig
T133-250*	3400-4200	50	300(80)	550	40	80	2.70/785	1.20	2.70	200	500-1600	25	250	120	0.04	320-450	10	0.18	14
T233-320*	2600-3200	40	360(85)	740	50	125	2.00/1005	1.15	1.50	200	500-1600	25	250	125	0.04	200-400	10	0.18	14
T233-400*	2000-2400	30	480(85)	987	70	245	2.00/1254	1.05	0.85	200	500-1600	25	250	125	0.04	160-320	10	0.18	14
T233-500	400-1800	30	590(85)	1160	90	405	1.80/1570	0.95	0.50	200	500-1600	25	250	125	0.04	100-200	10	0.18	14
T133-630	100-1200	40	750(85)	1430	12	720	1.65/1978	0.85	0.35	200	500-1600	25	250	130	0.04	80-160	10	0.10	12
T133-800	100-800	50	900(85)	2085	12	720	1.60/2512	0.80	0.28	200	500-1600	25	250	150	0.035	63-125	10	0.10	12
T133-320	900-2400	30	320(98)	820	70	245	2.00/1005	1.20	1.10	200	200-1600	35	300	125	0.04	250	10	0.18	14
T133-400	400-1600	30	400(93)	985	80	320	1.75/1256	1.05	0.68	200	200-1600	35	200	125	0.045	160	10	0.18	14
T133-500	100-800	50	500(120)	1720	10	500	1.50/1570	0.95	0.42	320	500-1600	35	150	150	0.035	160	10	0.10	12