

Fast thyristor modules

Type	V_{DRM} V_{RRM} $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100 \text{ V}$ V	I_{TRMSM}	I_{TSM} 10 ms, $t_{vj \text{ max}}$	$f_i^2 dt$ 10 ms, $t_{vj \text{ max}}$ A ² s	I_{TAVM}/t_C 180 °el sin. A/°C	$V_{(TO)}$ $t_{vj} =$ $t_{vj \text{ max}}$ V	r_T $t_{vj} =$ $t_{vj \text{ max}}$ mΩ	$(di/dt)_{cr}$ DIN IEC 747-6 A/μs	t_q μs	$(dv/dt)_{cr}$ DIN IEC 747-6 V/μs	R_{thJC} 180 °el sin. °C/W	R_{thCK} °C/W	$t_{vj \text{ max}}$ °C	Outline
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Modules with soldered contacts

<ul style="list-style-type: none"> ■ TT 18 F ■ TD 18 F ■ DT 18 F 	800 1000 1100* 1200*	40	350	610	25/60 18/85	1,2	14	100	F ≤ 25 E ≤ 20 S ≤ 18 D* ≤ 15 C* ≤ 12	B = 50 C = 500 L = 500 M* = 1000	1,2	0,2	125	
<ul style="list-style-type: none"> ■ TT 25 F ■ TD 25 F ■ DT 25 F 	800 1000 1100* 1200*	50	460	1060	32/71 25/85	1,20	8,0	100	F ≤ 25 E ≤ 20 S ≤ 18 D* ≤ 15 C* ≤ 12	B = 50 C = 500 L = 500 M* = 1000	0,92	0,2	125	
<ul style="list-style-type: none"> ■ TT 32 F ■ TD 32 F ■ DT 32 F 	800 1000 1100* 1200*	80	850	3600	51/52 32/85	1,30	5,5	120	F ≤ 25 E ≤ 20 S ≤ 18 D* ≤ 15 C* ≤ 12	B = 50 C = 500 L = 500 M* = 1000	0,72	0,16	125	
<ul style="list-style-type: none"> ■ TT 42 F ■ TD 42 F ■ DT 42 F 	800 1000 1100* 1200*	100	1000	5000	64/54 42/85	1,25	3,8	120	F ≤ 25 E ≤ 20 S ≤ 18 D* ≤ 15 C* ≤ 12	B = 50 C = 500 L = 500 M* = 1000	0,6	0,16	125	

Modules with compression bonding

<ul style="list-style-type: none"> TT 46 F TD 46 F DT 46 F 	800 1000 1100 1200 1300*	120	1150	6600	76/48 46/85	1,30	3,4	120	F ≤ 25 E ≤ 20 D ≤ 15 C ≤ 12	B = 50 C = 500 L = 500 M* = 1000	0,52	0,16	125	
<ul style="list-style-type: none"> ■ TT 60 F ■ TD 60 F ■ DT 60 F 	800 1000 1100 1200 1300*	150	1300	8450	96/50 60/85	1,30	4,0	200	F ≤ 25 E ≤ 20 D ≤ 15 C ≤ 12	B = 50 C = 500 L = 500 M* = 1000	0,35	0,08	125	
<ul style="list-style-type: none"> TT 71 F TD 71 F DT 71 F 	800 1000 1100 1200 1300 1400*	180	2100	22000	115/50 71/85	1,30	3,1	160	F ≤ 25 E ≤ 20	B = 50 C = 500 L = 500 M* = 1000	0,30	0,06	125	
<ul style="list-style-type: none"> TT 81 F TD 81 F DT 81 F 	200 400 600 800	180	2200	24200	115/62 81/85	1,25	2,0	160	E ≤ 20 D ≤ 15 C* ≤ 12	B = 50 C = 500 L = 500 M* = 1000	0,30	0,06	125	
<ul style="list-style-type: none"> TT 101 F TD 101 F DT 101 F 	800 1000 1100 1200 1300 1400*	200	2400	28800	128/70 101/85	1,20	2,1	160	F ≤ 25 E ≤ 20	B = 50 C = 500 L = 500 M* = 1000	0,23	0,06	125	
<ul style="list-style-type: none"> TT 111 F TD 111 F DT 111 F 	200 400 600 800	200	2600	33800	128/76 111/85	1,20	1,4	200	E ≤ 20 D ≤ 15 C* ≤ 12	B = 50 C = 500 L = 500 M* = 1000	0,23	0,06	125	
<ul style="list-style-type: none"> TT 180 F TD 180 F DT 180 F 	800 1000 1100 1200 1300*	350	6000	180000	223/73 180/85	1,30	0,9	200	F ≤ 25 E ≤ 20 S ≤ 18	B = 50 C = 500 L = 500 M* = 1000	0,13	0,04	125	
<ul style="list-style-type: none"> TT 200 F TD 200 F DT 200 F 	800 1000 1100 1200 1300*	410	6400	205000	261/68 200/85	1,20	0,75	200	F ≤ 25 E ≤ 20 S ≤ 18	B = 50 C = 500 L = 500 M* = 1000	0,13	0,04	125	
<ul style="list-style-type: none"> ▲ TZ 335 F 	800 1000 1100 1200 1300*	700	10000	500000	335/85 445/68	1,15	0,42	200	E = 20 F = 25 G = 30	C = 500 M = 1000	0,08	0,02	125	

Most types of the power module have been **UL**-recognized.

▲ New type ■ Not for new design

* Delivery for large quantities on request