

F 一般用サイリスタ THYRISTORS FOR GENERAL USE

4) スタッド型・RPシリーズ STUD TYPE・RP-SERIES

Type No.	VRRM VDRM V	VDSM V	VRSM V	IT(RMS) A	IO A	ITSM A	I ² t A ² s	IDM IRM mA	V _{TM} V	dv/dt V/μs	di/dt A/μs	IGT mA	VGT V	T _{iw} Tstg °C	R _{th} (j-c) °C/W	Weight g	Torque N·m (kgf·cm)	Out-line No.
68RP10	100	150	150	94	60	1,200	7,200	15	1.83 (ITM =180A)	200	100	150	3	-40 ∫ +125	0.45	105	17 13.5 173 138	45
20	200	300	300															
40	400	500	500															
60	600	700	700															
80	800	900	900															
88RP10	100	150	150	125	80	1,500	11,200	15	1.70 (ITM =250A)	200	100	150	3	-40 ∫ +125	0.3	105	17 13.5 173 138	45
20	200	300	300															
40	400	500	500															
60	600	700	700															
80	800	900	900															
108RP10	100	150	150	160	100	2,000	20,000	15	1.50 (ITM =314A)	200	100	150	3	-40 ∫ +125	0.3	105	17 13.5 173 138	45
20	200	300	300															
40	400	500	500															
60	600	700	700															
80	800	900	900															
158RP10	100	150	150	235	150	3,500	61,200	20	1.56 (ITM =470A)	200	100	150	3	-40 ∫ +125	0.15	200	34 27 347 275	46
20	200	300	300															
40	400	500	500															
60	600	700	700															
80	800	900	900															
208RP10	100	150	150	310	200	4,000	80,000	20	1.45 (ITM =630A)	200	100	150	3	-40 ∫ +125	0.15	200	34 27 347 275	46
20	200	300	300															
40	400	500	500															
60	600	700	700															
80	800	900	900															
308RP10	100	150	150	470	300	7,000	245,000	30	1.68 (ITM =940A)	200	100	200	3	-40 ∫ +125	0.10	455	43 35 438 357	47
20	200	300	300															
40	400	500	500															
60	600	700	700															
80	800	900	900															
408RP10	100	150	150	630	400	8,000	320,000	30	1.50 (ITM =1,260A)	200	100	200	3	-40 ∫ +125	0.10	455	43 35 438 357	47
20	200	300	300															
40	400	500	500															
60	600	700	700															
80	800	900	900															
508RP20	200	300	300	785	500	10,000	500,000	30	1.40 (ITM =1,500A)	300	100	100	2.5	-40 ∫ +125	0.08	455	43 35 438 357	47
40	400	500	500															

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5) スタッド型・RSシリーズ (その1) STUD TYPE・RS-SERIES

Type No.	VRRM VDRM V	VDSM V	VRSM V	IT(RMS) A	IO A	ITSM A	I ² t A ² s	IDM IRM mA	V _{TM} V	dv/dt V/μs	di/dt A/μs	IGT mA	VGT V	T _{iw} Tstg °C	R _{th} (j-c) °C/W	Weight g	Torque N·m (kgf·cm)	Out-line No.
68RS100	1,000	1,200	1,200	94	60	1,200	7,200	30	1.83 (ITM =180A)	200	200	150	3	-40 ∫ +125	0.45	105	17 13.5 173 138	45
120	1,200	1,400	1,400															
140	1,400	1,600	1,600															
160	1,600	1,750	1,800															
88RS100	1,000	1,200	1,200	125	80	1,500	11,200	30	1.70 (ITM =250A)	200	200	150	3	-40 ∫ +125	0.30	105	17 13.5 173 138	45
120	1,200	1,400	1,400															
140	1,400	1,600	1,600															
160	1,600	1,750	1,800															

4 定格・特性表

F 一般用サイリスタ THYRISTORS FOR GENERAL USE

5 スタッド型・RSシリーズ (その2) STUD TYPE・RS-SERIES (Continued)

Type No.	VRRM VDRM V	VDSM V	VRSM V	IT(RMS) A	IO A	ITSM A	I ² t A ² s	IDM IRM mA	VTM V	dv/dt V/μs	di/dt A/μs	IGT mA	VGT V	T _{jw} Tstg °C	Rth (j-c) °C/W	Weight g	Torque N·m (kgf·cm)	Out- line No.
128RS100	1,000	1,200	1,200	185	120	2,500	31,200	45	1.76 (ITM =380A)	200	200	150	3	-40 +125	0.20	200	34 27 {347 275}	46
120	1,200	1,400	1,400															
140	1,400	1,600	1,600															
160	1,600	1,750	1,800															
178RS100	1,000	1,200	1,200	275	175	3,500	61,200	45	1.65 (ITM =550A)	200	200	150	3	-40 +125	0.15	200	34 27 {347 275}	46
120	1,200	1,400	1,400															
140	1,400	1,600	1,600															
160	1,600	1,750	1,800															
278RS100	1,000	1,200	1,200	420	270	5,500	150,000	60	1.95 (ITM =850A)	200	200	200	3	-40 +125	0.12	455	43 35 {438 357}	47
120	1,200	1,400	1,400															
140	1,400	1,600	1,600															
160	1,600	1,750	1,800															
358RS100	1,000	1,200	1,200	550	350	7,000	245,000	60	1.80 (ITM =1,100A)	200	200	200	3	-40 +125	0.10	455	43 35 {438 357}	47
120	1,200	1,400	1,400															
140	1,400	1,600	1,600															
160	1,600	1,750	1,800															

6 スタッド型・RTシリーズ STUD TYPE・RT-SERIES

Type No.	VRRM VDRM V	VDSM V	VRSM V	IT(RMS) A	IO A	ITSM A	I ² t A ² s	IDM IRM mA	VTM V	dv/dt V/μs	di/dt A/μs	IGT mA	VGT V	T _{jw} Tstg °C	Rth (j-c) °C/W	Weight g	Torque N·m (kgf·cm)	Out- line No.
78RT180	1,800	2,000	2,000	110	70	1,300	8,400	30	1.88 (ITM =220A)	200	200	150	3	-40 +125	0.3	105	17 13.5 {173 138}	45
200	2,000	2,200	2,200															
250	2,500	2,500	2,750															
158RT180	1,800	2,000	2,000	235	150	2,800	39,000	45	1.80 (ITM =470A)	200	200	150	3	-40 +125	0.15	200	34 27 {347 275}	46
200	2,000	2,200	2,200															
250	2,500	2,500	2,750															
258RT180	1,800	2,000	2,000	390	250	4,600	105,000	80	1.76 (ITM =785A)	200	200	200	3	-40 +125	0.1	455	43 35 {438 357}	47
200	2,000	2,200	2,200															
250	2,500	2,500	2,750															

7 平型・PA, PABシリーズ (その1) FLAT PACKAGE TYPE・PA, PAB-SERIES

Type No.	VRRM VDRM V	VDSM V	VRSM V	IT(RMS) A	IO A	ITSM A	I ² t A ² s	IDM IRM mA	VTM V	dv/dt V/μs	di/dt A/μs	IGT mA	VGT V	T _{jw} Tstg °C	Rth (j-f) °C/W	Weight g	Mounting Force kN(kgf)	Out- line No.
103PA100	1,000	1,150	1,150	157	100	2,000	20,000	30	2.0 (ITM =314A)	500	150	150	3	-40 +125	0.18	52	8 3 {816 306}	52
120	1,200	1,350	1,350															
140	1,400	1,550	1,550															
160	1,600	1,750	1,750															
253PA100	1,000	1,150	1,150	390	250	4,000	80,000	45	2.25 (ITM =780A)	500	150	150	3	-40 +125	0.10	80	12 6 {1,220 612}	52
120	1,200	1,350	1,350															
140	1,400	1,550	1,550															
160	1,600	1,750	1,750															
403PAB180	1,800	2,000	2,000	630	400	7,000	245,000	60	2.12 (ITM =1,260A)	200	200	200	3	-40 +125	0.05	250	15 12 {1,530 1,220}	54
200	2,000	2,200	2,200															
250	2,500	2,500	2,750															
453PA60	600	700	700	700	450	6,300	198,000	60	1.85 (ITM =1,400A)	200	100	150	3	-40 +125	0.08	80	12 8 {1,220 816}	52
80	800	900	900															
100	1,000	1,200	1,200															
120	1,200	1,350	1,350															
503PA60	600	800	800	785	500	10,000	500,000	60	1.96 (ITM =1,500A)	500	150	150	3	-40 +125	0.06	135	15 10 {1,530 1,020}	52
80	800	1,000	1,000															
100	1,000	1,200	1,200															
120	1,200	1,400	1,400															
140	1,400	1,600	1,600															
160	1,600	1,800	1,800															
503PAB180	1,800	2,000	2,000	785	500	7,000	245,000	60	2.10 (ITM =1,500A)	200	200	200	3	-40 +125	0.05	250	15 12 {1,530 1,220}	54
200	2,000	2,200	2,200															
250	2,500	2,500	2,750															
553PA60	600	800	800	860	550	10,000	500,000	60	1.88 (ITM =1,700A)	200	150	200	3	-40 +125	0.06	135	15 12 {1,530 1,220}	52
80	800	1,000	1,000															
100	1,000	1,200	1,200															
120	1,200	1,400	1,400															
140	1,400	1,600	1,600															
160	1,600	1,800	1,800															
803PA20	200	300	300	1,250	800	12,000	720,000	60	1.65 (ITM =2,500A)	200	200	200	3	-40 +125	0.045	135	15 12 {1,530 1,220}	52
40	400	500	500															
60	600	700	700															
80	800	900	900															
100	1,000	1,200	1,200															
120	1,200	1,300	1,400															
853PA100	1,000	1,200	1,200	1,330	850	15,000	1.25×10 ⁶	80	1.85 (ITM =2,700A)	200	200	200	3	-40 +125	0.025	360	35 30 {3,570 3,060}	55
120	1,200	1,400	1,400															
140	1,400	1,600	1,600															
160	1,600	1,800	1,800															

F 一般用サイリスタ THYRISTORS FOR GENERAL USE

7 平型・PA, PABシリーズ (その2) FLAT PACKAGE TYPE・PA, PAB-SERIES (Continued)

Type No.	VRRM VDRM V	VDSM V	VRSM V	IT(RMS) A	IO A	ITSM A	I ² t A ² s	IDM IRM mA	VTM V	dv/dt V/μs	di/dt A/μs	IGT mA	VGT V	T _{jw} Tstg °C	Rth (j-f) °C/W	Weight g	Mounting Force kN(kgf)	Out- line No.
853PAB180 200 250	1.800 2.000 2.500	2.000 2.200 2.500	2.000 2.200 2.750	1.330	850	14.000	9.8×10 ⁵	120	2.25 (ITM =2.700A)	200	200	200	3	-40 +125	0.025	360	35 30 {3.570 3.060}	55
1003PA100 120 140 160	1.000 1.200 1.400 1.600	1.200 1.400 1.600 1.750	1.200 1.400 1.600 1.800	1.570	1.000	17.000	1.44×10 ⁶	80	1.70 (ITM =3.200A)	200	200	200	3	-40 +125	0.025	360	35 30 {3.570 3.060}	55
1003PAB180 200 250	1.800 2.000 2.500	2.000 2.200 2.500	2.000 2.200 2.750	1.570	1.000	16.000	1.28×10 ⁶	120	2.15 (ITM =3.200A (T _j =125°C))	200	200	200	3	-40 +125	0.025	460	35 30 {3.570 3.060}	55
1503PA40 60 80 100 120 140 160	400 600 800 1.000 1.200 1.400 1.600	500 700 900	500 700 900	2.350	1.500	25.000	3.125×10 ⁶	100	1.70 (ITM =4.700A)	200	200	200	3	-40 +125	0.025	460	35 30 {3.570 3.060}	55
2501PAB180 200 250	1.800 2.000 2.500	2.000 2.200 2.500	2.000 2.200 2.750	3.900	2.500	43.000	9.2×10 ⁵	120	1.95 (ITM =8.000A)	1.500	250	200	3	-40 +125	0.013	1.250	40 34 {4.080 3.468}	56
3003PA40 60 80 100 120 140 160	400 600 800 1.000 1.200 1.400 1.600	500 700 900	500 700 900	4.700	3.000	50.000	1.25×10 ⁷	150	1.45 (ITM =9.500A)	200	200	200	3	-40 +125	0.01	740	55 50 {5.610 5.100}	57
4003PA40 60 80	400 600 800	500 700 900	500 700 900	6.300	4.000	60.000	1.8×10 ⁷	150	1.60 (ITM =13.000A)	200	200	200	3	-40 +125	0.01	740	55 50 {5.610 5.100}	57

G 高速スイッチングサイリスタ FAST TURN-OFF THYRISTORS

1 スタッド型・RLEシリーズ (その1) STUD TYPE・RLE-SERIES tq=15μs

Type No.	VRRM VDRM V	VDSM V	VRSM V	IT(RMS) A	IO A	ITSM A	I ² t A ² s	IDM IRM mA	VTM V	dv/dt V/μs	di/dt A/μs	IGT mA	VGT V	tq μs	T _{jw} Tstg °C	Rth (j-c) °C/W	Weight g	Torque N·m (kgf·cm)	Out- line No.
88RLE60 80	600 800	700 900	700 900	125	80	1.500	11.200	15	2.15 (ITM =250A)	100	200	150	3	15	-40 +125	0.3	105	17 13.5 {1.73 1.38}	45
108RLE10 20 40	100 200 400	200 300 500	200 300 500	160	100	2.000	20.000	15	1.68 (ITM =314A)	100	100	150	3	15	-40 +125	0.3	105	17 13.5 {1.73 1.38}	45
178RLE60 80	600 800	700 900	700 900	270	175	3.500	61.200	20	2.20 (ITM =550A)	100	200	150	3	15	-40 +125	0.15	200	34 27 {3.47 2.75}	46
208RLE10 20 40	100 200 400	200 300 500	200 300 500	310	200	4.000	80.000	20	1.65 (ITM =630A)	100	100	150	3	15	-40 +125	0.15	200	34 27 {3.47 2.75}	46

2 スタッド型・RLEシリーズ (その2) STUD TYPE・RLE-SERIES tq=15μs (Continued)

Type No.	VRRM VDRM V	VDSM V	VRSM V	IT(RMS) A	IO A	ITSM A	I ² t A ² s	IDM IRM mA	VTM V	dv/dt V/μs	di/dt A/μs	IGT mA	VGT V	tq μs	T _{jw} Tstg °C	Rth (j-c) °C/W	Weight g	Torque N·m (kgf·cm)	Out- line No.
308RLE60 80	600 800	700 900	700 900	470	300	6.000	180.000	40	2.24 (ITM =940A)	100	200	200	3	15	-40 +125	0.10	455	43 35 {4.38 3.57}	47
358RLE10 20 40	100 200 400	200 300 500	200 300 500	550	350	7.000	245.000	40	1.70 (ITM =1.100A)	100	100	200	3	15	-40 +125	0.10	455	43 35 {4.38 3.57}	47

3 スタッド型・RLFシリーズ STUD TYPE・RLF-SERIES tq=20μs

Type No.	VRRM VDRM V	VDSM V	VRSM V	IT(RMS) A	IO A	ITSM A	I ² t A ² s	IDM IRM mA	VTM V	dv/dt V/μs	di/dt A/μs	IGT mA	VGT V	tq μs	T _{jw} Tstg °C	Rth (j-c) °C/W	Weight g	Torque N·m (kgf·cm)	Out- line No.
88RLF60 80	600 800	700 900	700 900	125	80	1.500	11.200	15	1.87 (ITM =250A)	100	200	150	3	20	-40 +125	0.3	105	17 13.5 {1.73 1.38}	45
178RLF60 80	600 800	700 900	700 900	270	175	3.500	61.200	20	1.90 (ITM =550A)	100	200	150	3	20	-40 +125	0.15	200	34 27 {3.47 2.75}	46
308RLF60 80	600 800	700 900	700 900	470	300	6.000	180.000	40	1.94 (ITM =940A)	100	200	200	3	20	-40 +125	0.10	455	43 35 {4.38 3.57}	47