



Powerex, Inc., Hillis Street, Youngwood, Pennsylvania 15697 (412) 925-7272

Powerex Europe, S.A., 428 Avenue G. Durand, BP107, 72003 Le Mans, France (43) 41.14.14

ASYMMETRICAL GTO THYRISTORS

Type	V _{DRM} Volts	V _{RRM} Volts	V _{D(DC)} Volts	V _{R(DC)} Volts	I _{DRM} mA	I _{RRM} mA	I _{TORM} Amperes	C _s (μ F)	I _{TRMS} Amperes	I _{TSM} Amperes
GT300AL16	800	15	640	15	30	60	300	1.0	150	2500
GT300AL20	1000	15	800	15	30	60	300	1.0	150	2500
GT300AL24	1200	15	960	15	30	60	300	1.0	150	2500
GT300AL32	1600	15	1280	15	30	60	300	1.0	150	2500
GT300AV70	3500	17	2800	17	30	30	300	0.5	190	2500
GT300AV80	4000	17	3200	17	30	30	300	0.5	190	2500
GT300AV90	4500	17	3600	17	30	30	300	0.5	190	2500
FG450BL16	800	15	640	15	30	100	450	2.0	200	2500
FG450BL20	1000	15	800	15	30	100	450	2.0	200	2500
FG450BL24	1200	15	960	15	30	100	450	2.0	200	2500
FG450BL32	1600	15	1280	15	30	100	450	2.0	200	2500
FG600AL16	800	15	640	15	40	100	600	2.0	270	5000
FG600AL20	1000	15	800	15	40	100	600	2.0	270	5000
FG600AL24	1200	15	960	15	40	100	600	2.0	270	5000
FG600AL32	1600	15	1280	15	40	100	600	2.0	270	5000
FG600AH40	2000	15	1600	15	40	100	600	2.0	270	5000
FG600AH50	2500	15	2000	15	40	100	600	2.0	270	5000
FG600BV70*	3500	15	2800	17	40	50	600	0.5	440	4600
FG600BV80*	4000	15	3200	17	40	50	600	0.5	440	4600
FG600BV90*	4500	15	3600	17	40	50	600	0.5	440	4600
FG1000AL16	800	15	640	15	50	100	1000	3.0	440	7000
FG1000AL20	1000	15	800	15	50	100	1000	3.0	440	7000
FG1000AL24	1200	15	960	15	50	100	1000	3.0	440	7000
FG1000AL32	1600	15	1280	15	50	100	1000	3.0	440	7000
FG1000AH40	2000	15	1600	15	50	100	1000	2.0	440	7000
FG1000AH50	2500	15	2000	15	50	100	1000	2.0	440	7000
FG1000AV70	3500	17	2800	17	70	70	1000	2.0	595	5500
FG1000AV80	4000	17	3200	17	70	70	1000	2.0	595	5500
FG1000AV90	4500	17	3600	17	70	70	1000	2.0	595	5500

* Also available in alternate package FG600AV, outline drawing number 6.

I _{PI} (A ² s)	V _{TM} (at I _{TORM}) Volts	I _{GT} mA	V _{GT} Volts	t _{gt} μs	t _{gq} μs	di _T /dt A/μs	dv/dt V/μs	R _{θJS} °C/W	Mounting Force (kN) (*Torque (N.m))	Outline Drawings	
										Number	Page
2.6 x 10 ⁴	2.1	700	1.5	10	15	300	1000	0.16	*27.0 to 36.0	1	14
2.6 x 10 ⁴	2.1	700	1.5	10	15	300	1000	0.16	*27.0 to 36.0	1	14
2.6 x 10 ⁴	2.1	700	1.5	10	15	300	1000	0.16	*27.0 to 36.0	1	14
2.6 x 10 ⁴	2.1	700	1.5	10	15	300	1000	0.16	*27.0 to 36.0	1	14
2.6 x 10 ⁴	3.5	1000	1.5	10	15	600	1000	0.16	*27.0 to 36.0	2	14
2.6 x 10 ⁴	3.5	1000	1.5	10	15	600	1000	0.16	*27.0 to 36.0	2	14
2.6 x 10 ⁴	3.5	1000	1.5	10	15	600	1000	0.16	*27.0 to 36.0	2	14
2.6 x 10 ⁴	2.5	700	1.5	10	15	300	1000	0.09	4.5 to 6.0	3	14
2.6 x 10 ⁴	2.5	700	1.5	10	15	300	1000	0.09	4.5 to 6.0	3	14
2.6 x 10 ⁴	2.5	700	1.5	10	15	300	1000	0.09	4.5 to 6.0	3	14
2.6 x 10 ⁴	2.5	700	1.5	10	15	300	1000	0.09	4.5 to 6.0	3	14
1.0 x 10 ⁵	2.2	1500	1.5	10	15	300	1000	0.055	8.0 to 11.0	3	14
1.0 x 10 ⁵	2.2	1500	1.5	10	15	300	1000	0.055	8.0 to 11.0	3	14
1.0 x 10 ⁵	2.2	1500	1.5	10	15	300	1000	0.055	8.0 to 11.0	3	14
1.0 x 10 ⁵	2.2	1500	1.5	10	15	300	1000	0.055	8.0 to 11.0	3	14
1.0 x 10 ⁵	2.5	1500	1.5	10	20	300	1000	0.055	8.0 to 11.0	6	15
1.0 x 10 ⁵	2.5	1500	1.5	10	20	300	1000	0.055	8.0 to 11.0	6	15
8.8 x 10 ⁴	3.5	1500	1.5	10	15	600	1000	0.045	8.0 to 11.0	4	14
8.8 x 10 ⁴	3.5	1500	1.5	10	15	600	1000	0.045	8.0 to 11.0	4	14
8.8 x 10 ⁴	3.5	1500	1.5	10	15	600	1000	0.045	8.0 to 11.0	4	14
2.0 x 10 ⁵	1.9	2000	1.5	10	20	300	1000	0.045	10.0 to 13.0	7	15
2.0 x 10 ⁵	1.9	2000	1.5	10	20	300	1000	0.045	10.0 to 13.0	7	15
2.0 x 10 ⁵	1.9	2000	1.5	10	20	300	1000	0.045	10.0 to 13.0	7	15
2.0 x 10 ⁵	1.9	2000	1.5	10	20	300	1000	0.045	10.0 to 13.0	7	15
2.0 x 10 ⁵	2.5	2000	1.5	10	20	300	1000	0.04	10.0 to 15.0	9	16
2.0 x 10 ⁵	2.5	2000	1.5	10	20	300	1000	0.04	10.0 to 15.0	9	16
1.3 x 10 ⁵	3.5	2000	1.5	10	20	600	1000	0.035	12.0 to 15.0	8	15
1.3 x 10 ⁵	3.5	2000	1.5	10	20	600	1000	0.035	12.0 to 15.0	8	15
1.3 x 10 ⁵	3.5	2000	1.5	10	20	600	1000	0.035	12.0 to 15.0	8	15



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Type	V _{DRM} Volts	V _{RRM} Volts	V _{D(DC)} Volts	V _{R(DC)} Volts	I _{DRM} mA	I _{RRM} mA	I _{TORM} Amperes	C _s (μ F)	I _{TRMS} Amperes	I _{TSM} Amperes
FG1800CH40*	2000	17	1600	17	100	300	1800	4.0	865	16000
FG1800CH50*	2500	17	2000	17	100	300	1800	4.0	865	16000
FG2000DV70	3500	17	2800	17	150	300	2000	4.0	940	13000
FG2000DV80	4000	17	3200	17	150	300	2000	4.0	940	13000
FG2000DV90	4500	17	3600	17	150	300	2000	4.0	940	13000
FG3000BH40	2000	17	1600	17	150	300	3000	6.0	1570	24000
FG3000BH50	2500	17	2000	17	150	300	3000	6.0	1570	24000
FG3000BV70	3500	19	2800	17	150	300	3000	6.0	1250	17000
FG3000BV80	4000	19	3200	17	150	300	3000	6.0	1250	17000
FG3000BV90	4500	19	3600	17	150	300	3000	6.0	1250	17000
FG4000AH40	2000	17	1600	17	150	300	4000	6.0	1600	30000
FG4000AH50	2500	17	2000	17	150	300	4000	6.0	1600	30000
FG4000AV70	3500	17	2800	17	150	300	4000	6.0	1600	20000
FG4000AV80	4000	17	3200	17	150	300	4000	6.0	1600	20000
FG4000AV90	4500	17	3600	17	150	300	4000	6.0	1600	20000

*Also available in alternate package FG1800BH, outline drawing number 10.

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I ² t (A ² s)	V _{TM} (at I _{TORM}) Volts	I _{GT} mA	V _{GT} Volts	t _{gt} μs	t _{gq} μs	di _r /dt A/μs	dv/dt V/μs	R _{θJS} °C/W	Mounting Force (kN)	Outline Drawings	
										Number	Page
1.1 x 10 ⁶	3.0	3000	1.5	10	30	300	1000	0.02	18.0 to 24.0	11	16
1.1 x 10 ⁶	3.0	3000	1.5	10	30	300	1000	0.02	18.0 to 24.0	11	16
7.0 x 10 ⁵	3.5	3000	1.5	10	30	300	1000	0.02	18.0 to 24.0	11	16
7.0 x 10 ⁵	3.5	3000	1.5	10	30	300	1000	0.02	18.0 to 24.0	11	16
7.0 x 10 ⁵	3.5	3000	1.5	10	30	300	1000	0.02	18.0 to 24.0	11	16
2.4 x 10 ⁶	3.0	4000	1.2	10	30	500	1000	0.016	29.0 to 44.0	12	16
2.4 x 10 ⁶	3.0	4000	1.2	10	30	500	1000	0.016	29.0 to 44.0	12	16
1.2 x 10 ⁶	4.0	4000	1.5	10	30	500	1000	0.016	29.0 to 44.0	12	16
1.2 x 10 ⁶	4.0	4000	1.5	10	30	500	1000	0.016	29.0 to 44.0	12	16
1.2 x 10 ⁶	4.0	4000	1.5	10	30	500	1000	0.016	29.0 to 44.0	12	16
3.75 x 10 ⁶	3.5	5000	1.5	10	30	500	1000	0.013	45.0 to 60.0	16	17
3.75 x 10 ⁶	3.5	5000	1.5	10	30	500	1000	0.013	45.0 to 60.0	16	17
1.7 x 10 ⁶	4.3	4000	1.5	10	30	500	1000	0.013	45.0 to 60.0	16	17
1.7 x 10 ⁶	4.3	4000	1.5	10	30	500	1000	0.013	45.0 to 60.0	16	17
1.7 x 10 ⁶	4.3	4000	1.5	10	30	500	1000	0.013	45.0 to 60.0	16	17