



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

### HIGH FREQUENCY GTO THYRISTORS

Type	V <sub>DRM</sub> Volts	V <sub>RRM</sub> Volts	V <sub>D(DC)</sub> Volts	V <sub>R(DC)</sub> Volts	I <sub>DRM</sub> mA	I <sub>RRM</sub> mA	I <sub>TRM</sub> Amperes	C <sub>a</sub> ( $\mu$ F)	I <sub>TRMS</sub> Amperes	I <sub>TSM</sub> Amperes
FG450DX40	2000	17	1600	17	30	30	450	0.4	200	2400
FG450DX50	2500	17	2000	17	30	30	450	0.4	200	2400
FG600EX40	2000	17	1600	17	50	50	600	0.5	270	4600
FG600EX50	2500	17	2000	17	50	50	600	0.5	270	4600
FG1000CX40	2000	17	1600	17	70	70	1000	0.7	440	7000
FG1000CX50	2500	17	2000	17	70	70	1000	0.7	440	7000
FG1600BX24	1200	17	860	17	90	90	1600	1.5	785	7800
FG1600BX32	1600	17	1280	17	90	90	1600	1.5	785	7800
FG1600BX40	2000	17	1600	17	90	90	1600	1.5	785	7800
FG1600BX50	2500	17	2000	17	90	90	1600	1.5	785	7800
FG2000DX24	1200	17	960	17	100	100	2000	2.0	1180	13000
FG2000DX32	1600	17	1280	17	100	100	2000	2.0	1180	13000
FG2000DX40	2000	17	1600	17	100	100	2000	2.0	1180	13000
FG2000DX50	2500	17	2000	17	100	100	2000	2.0	1180	13000

I <sub>TM</sub> (A <sup>2</sup> s)	V <sub>TM</sub> (at I <sub>FORM</sub> ) Volts	I <sub>GT</sub> mA	V <sub>GT</sub> Volts	t <sub>gt</sub> μs	t <sub>gq</sub> μs	t <sub>gw</sub> μs	di <sub>T</sub> /dt A/μs	dv/dt V/μs	R <sub>θJS</sub> °C/W	Mounting Force (kN) (*Torque (N.m))	Outline Drawings	
											Number	Page
2.4 x 10 <sup>4</sup>	3.5	900	1.5	10	15	45	600	1100	0.08	3.6 to 4.8	5	15
2.4 x 10 <sup>4</sup>	3.5	900	1.5	10	15	45	600	1100	0.08	3.6 to 4.8	5	15
8.8 x 10 <sup>4</sup>	3.5	1500	1.5	10	15	45	600	1200	0.045	7.4 to 9.8	4	14
8.8 x 10 <sup>4</sup>	3.5	1500	1.5	10	15	45	600	1200	0.045	7.4 to 9.8	4	14
2.0 x 10 <sup>5</sup>	3.5	2000	1.5	10	15	45	600	1400	0.04	12.0 to 15.0	8	15
2.0 x 10 <sup>5</sup>	3.5	2000	1.5	10	15	45	600	1400	0.04	12.0 to 15.0	8	15
2.5 x 10 <sup>5</sup>	3.5	3000	1.5	10	20	65	600	1000	0.03	16.0 to 21.0	13	17
2.5 x 10 <sup>5</sup>	3.5	3000	1.5	10	20	65	600	1000	0.03	16.0 to 21.0	13	17
2.5 x 10 <sup>5</sup>	3.5	3000	1.5	10	20	65	600	1000	0.03	16.0 to 21.0	13	17
2.5 x 10 <sup>5</sup>	3.5	3000	1.5	10	20	65	600	1000	0.03	16.0 to 21.0	13	17
7.0 x 10 <sup>5</sup>	3.5	4000	1.5	10	20	65	600	1000	0.018	24.0 to 31.0	14	17
7.0 x 10 <sup>5</sup>	3.5	4000	1.5	10	20	65	600	1000	0.018	24.0 to 31.0	14	17
7.0 x 10 <sup>5</sup>	3.5	4000	1.5	10	20	65	600	1000	0.018	24.0 to 31.0	14	17
7.0 x 10 <sup>5</sup>	3.5	4000	1.5	10	20	65	600	1000	0.018	24.0 to 31.0	14	17