

Asymmetric GTO Thyristors

May 2011 Issue 1

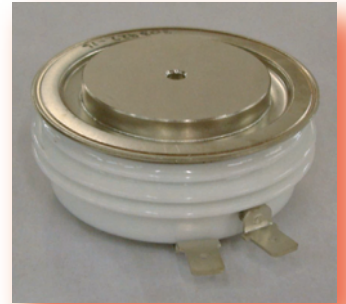
A broad range of high specification Asymmetric Gate Turn-Off thyristors are available with blocking voltages of 2.5kV and 4.5kV with controllable current ratings to 4000A.

Our GTO thyristor portfolio incorporates a range of advanced technologies and lifetime control techniques.

We also offer symmetrical blocking devices for applications with a reverse blocking requirement e.g. current sourced inverters.

Our experienced and dedicated technical support group is on hand with practical advice on design issues and ancillary component selection.

To support our range of GTO thyristors we offer a range of complementary products including anti parallel diodes, snubber capacitors, snubber diodes, mounting clamps and thermal management solutions.



Features and Benefits

- Advanced Technologies and Lifetime control
- Controllable current ratings up to 4000A.
- Pressure contact construction.
- Fully hermetic construction.
- Available in 5 package sizes to industry standards.

All our devices are designed, manufactured and tested to the highest standards in world class facilities and using the latest process technologies.

GTO Thyristors are still the component of choice for high power converters and Westcode remain totally committed to this technology for the foreseeable future.

Applications



Our obsession with quality has helped us become a leading supplier of GTO thyristors into demanding markets such as Transportation propulsion and auxiliaries, Industrial and medium voltage ac drives, and Energy & Renewables.



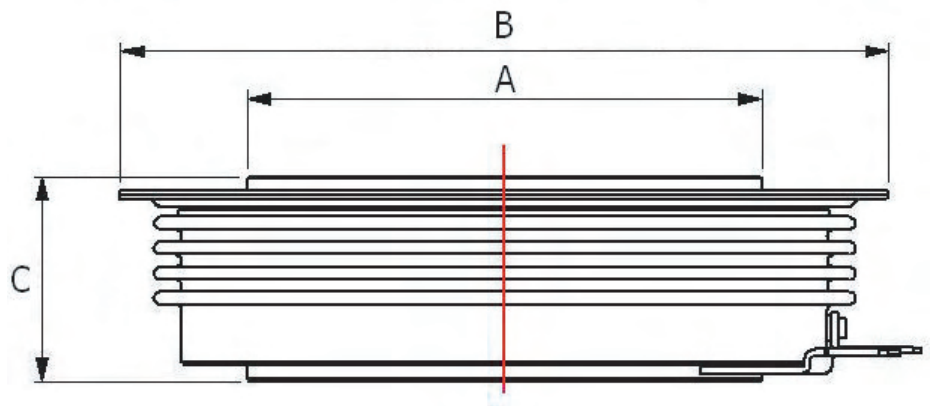
PRODUCT BRIEF - Asymmetric GTO Thyristors

Summary Table

Part No.	V_{DRM} $V_{GK} = -2V$	V_{RRM}	$I_{TGM} @ C_S$		I_{TAV} $T_K = 55^\circ C$	I_{TSM}	I^2t 10ms 1/2 sine $V_R = \leq 60\% V_{RRM}$	Typ. Switching Times		V_T $I_T = I_{TGM}$	T_{JM}	R_{thJK} 180° Sine K/W	Outline
	V	V	A	μC	A	kA	kA^2s	t_{gt} μs	t_{gq} μs	V	$^\circ C$		
G1000QC250	2500	18	1000	1.0	510	8.0	320×10^3	2.8	12	2.5	125	0.038	A
G1000QC450	4500	18	1000	1.0	443	6.5	211.25×10^3	3.0	13	4.0	125	0.038	A
G1000NC450	4500	18	1000	2.0	545	8.0	320×10^3	4.5	14	4.0	125	0.027	B
G2000HF250	2500	18	2000	4.0	1090	16.0	1.28×10^6	3.0	25	2.8	125	0.022	C
G2000HF450	4500	18	2000	4.0	940	13.7	138×10^3	4.0	25	3.5	125	0.022	C
G2500HF250	2500	18	2500	6.0	1085	16.0	1.28×10^6	3.0	25	3.1	125	0.022	C
G3000TF250	2500	18	3000	5.0	1600	30.0	4.5×10^6	3.0	25	2.5	125	0.015	D
G3000TF450	4500	18	3000	6.0	1381	24.0	2.88×10^6	4.0	25	4.0	125	0.015	D
G4000EC450	4500	18	4000	6.0	1270	25.0	3.13×10^6	7.5	28	4.4	125	0.014	E

Outline Dimensions

Outline	A mm	B mm	C mm
A	38	60	26
B	47	75	28
C	66	112	26
D	75	108	26
E	85	120	26



Certificate FM26085

Westcode Semiconductors Limited's BS EN ISO 9001 Quality System is registered by BSI.

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