

GATE CONTROLLED DEVICE - Gate Turn Off Thyristors - Capsule Type

Old Part Number	PDF Data Sheet Available	New Part Number	V_{DRM}	$V_{GK} = 2V$	V_{RRM}	V_{RGM}	$I_{TGOM} @ C_s$		$I_{T(AV)}$	$I_{T(RMS)}$	$I_{TSM(1)}$	$I_{TSM(2)}$	I^2t	V_{TM}	$I_{GT} @ 25^\circ C$	$V_{GT} @ 25^\circ C$	$t_{gt} @ I_{GM} = I_{TGOM}$		$t_{gq} @ di_{GQ}/dt$		t_{on}	t_{off}	Rth j-hs	Wt	Mounting Force	Outline No.
			(V)	(V)	(V)	(A)	(mF)	(A)	(A)	(kA)	(kA)	(kA ² s)	(V)	(V)	(ms)	(A)	(ms)	(A/ms)	(ms)	(ms)	(K/W)	(g)	(kN)			
			Notes 1&2	Note 2	Note 2			Note 3	Note 3	Note 4	Note 4	Note 4	Note 5	Note 6		Note 6		Note 7	Note 8							
WG5025Rx	*	S0500KC250	1200-2500		100-2000	18	500	1	330	640	4	7.2	80×10^3	2.5	1.0	0.8	0.4	10	10	20	20.0	90.0	0.065	120	45-90	101A296
WG6018Rx	*	S0600KC180	600-1800		100-1400	18	600	1.5	430	870	5	9	130×10^3	2.1	1.0	0.8	0.4	12	10	20	20.0	70.0	0.063	120	45-90	
WG9014Rx	*	S0900KC140	600-1400		100-1100	18	900	3	445	890	5.5	9.8	150×10^3	2.3	1.0	0.8	0.4	15	12	20	20.0	75.0	0.063	120	45-90	
WG5025FRx	*	H0500KC250	1200-2500		100-2000	18	500	1	280	540	3	5.4	45×10^3	3.2	1.5	0.8	0.8	30	5	40	10.0	60.0	0.065	120	45-90	
WG6018FRx	*	H0600KC180	600-1800		100-1400	18	600	1.5	360	700	4	7.2	80×10^3	2.6	1.5	0.8	0.8	30	5	40	20.0	45.0	0.063	120	45-90	
WG9014FRx	*	H0900KC140	600-1400		100-1100	18	900	3	370	730	4.5	8.1	100×10^3	3.0	1.5	0.8	0.8	40	6	40	10.0	50.0	0.063	120	45-90	
WG10025SN	Y	G1000LC250	2500		1800	18	1000	2	500	970	5	8.9	125×10^3	2.5	1.0	1.0	2.0	20	16	25	2.0	16.0	0.080	170	10-12	101A288
WG10045SN	Y	G1000NC450	4500		1800	18	1000	2	380	750	8	14	80×10^3	4.0	1.0	1.2	2.0	20	16	25	2.0	16.0	0.080	480	15-25	Fig. 3
WG20025SN	Y	G2000LC250	2500		1800	18	2000	4	1020	2040	16	24	1.28×10^6	2.8	2.5	1.0	5.0	30	24	30	5.0	24.0	0.027	800	17-24	Fig. 4
WG20045SN	Y	G2000NC450	4500		1800	18	2000	4	870	1730	13	22	0.85×10^6	3.5	2.5	1.0	8.0	30	25	30	8.0	25.0	0.027	800	17-24	
WG30025SN	Y	G3000ZC250	2500		1800	18	3000	5	1640	3270	30	40	4.50×10^6	2.5	4.0	1.2	7.5	30	28	40	7.5	28.0	0.015	1500	36-44	Fig. 5
WG30045SN	Y	G3000ZC450	4500		1800	18	3000	6	1180	2360	24	32	2.88×10^6	4.0	3.0	1.0	9.0	30	28	40	9.0	28.0	0.015	1300	36-44	
WG30060SN	Y	G3000ZC600	6000		1800	18	3000	3	1100	2300	24	32	2.88×10^6	3.5	1.0	1.2	7.5	25	28	70	7.5	28.0	0.015	1500	36-44	Fig. 6
WG40045SN	Y	G4000EC450	4500		1800	18	4000	6	1270	2540	25	32	3.1×10^6	4.4	4.0	1.2	7.5	50	28	40	7.5	28.0	0.015	1500	36-44	

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* These products, and their derivatives now undergoing obsolescence - please contact Factory for alternatives.

Part Number OBSOLETE	Data Sheet Available	New Part Number (Not applicable)	V_{DRM}	$V_{GK} = 2V$	V_{RRM}	V_{GK}	$I_{TGOM} @ C_s$		$I_{T(AV)}$	$I_{T(RMS)}$	$I_{TSM(1)}$	$I_{TSM(2)}$	I^2t	V_{TM}	$I_{GT} @ 25^\circ C$	$V_{GT} @ 25^\circ C$	$t_{gt} @ I_{GM} = I_{TGOM}$		$t_{gq} @ di_{GQ}/dt$		t_{on}	t_{off}	Rth j-hs	Wt	Mounting Force	Outline No.
			(V)	(V)	(V)	(A)	(mF)	(A)	(A)	(kA)	(kA)	(A ² s)	(V)	(A)	(V)	(ms)	(A)	(ms)	(A/ms)	(ms)	(ms)	(K/W)	(g)	(kN)		
			Note 1	Note 1	Note 2			Note 3	Note 3	Note 4	Note 4	Note 4	Note 5	Note 6		Note 6		Note 7	Note 8							
WG5045S	N/A	N/A	Not for new designs. Please refer to Factory for assistance.																							
WG8045S	N/A	N/A																								
WG8060S	N/A	N/A																								
WG7025S	N/A	N/A																								
WG10025S	N/A	N/A																								
WG40045S	N/A	N/A																								

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- Notes:**
- $V_{GK} \leq -2V$.
 - Not applicable to this table.
 - Double side cooled, single phase; 50Hz, 180° sinewave.
 - $T_{j(initial)} = 125^\circ C$, single phase, 180° sinewave, re-applied voltage $V_D = V_R \leq 10V$.
 - $I_T = 3000A$ repetitive, $I_{GM} = 30A$, $di_{GM}/dt = 20A/\mu s$, for higher di/dt please consult Westcode Sales Office.
 - With RCD snubber, $R = 5$ ohms and C is the value as for I_{TGOM}
 - Does not include snubber discharge time; refers only to minimum time for whole device to be in conduction with anode current $di/dt > 10A/\mu s$
 - Minimum time to re-fire the device. The gate drive circuit may require a longer period of low impedance option to ensure full extraction of the tail current