

FAST SWITCHING DEVICE - Fast Turn Off Thyristors - Capsule Type

Old Part Number	PDF Data sheet Available	New Part Number	V _{DRM} V _{RRM} Range Note 3 (V)	Turn-off Time T _q at 200/Vms Note 4 (ms)		I _{TAV} T _{HS} 55°C (A)	I _{T(RMS)} @ 25°C (A)	I _T @ 25°C (A)	I _{TSM(1)} 10ms V _R £60% V _{RRM} Note 1 (A)	I _{TSM(2)} 10ms VR £10V Note 1 (A)	I ² t (2) 10ms (Note 1) A ² s	Qra 50% Chord 120°C Typ (mC)	di/dt Non- Rep/Rep (A / ms)	I _{DRM} I _{RRM} (mA)	I _{GT} /V _{GT} (mA) / (V)	I _H (V) / (A)	V _{TM} at I _{TM} (Tj 125°C) (V) (mW)	V _O (Tj 125°C) Note 2 (V) (mW)	Rth j-hs		Wt (Typ) (g)	Mounting Force (kN)	Outline No.	
				d.c.180° sine (K/W)	120° Rect. (K/W)																			
P200CH12	N	P0295WC12x	1000-1200	25-35	(3)	295	600	480	2700	2970	44.1 x 10 ³	25(3)	1000 / 500	30	200 / 3	600	2.48 / 715	1.60	1.23	0.095	0.110	70	3.3 - 5.5	101A212
P202CH12	N	P0327WC12x	1000-1200	25-35	(3)	327	670	525	3250	3575	63.9 x 10 ³	30(3)	1000 / 500	30	200 / 3	600	2.17 / 715	1.55	0.87	0.095	0.110	70	3.3 - 5.5	
P205CH12	N	P0367WC12E	1000-1200	25-35	(3)	367	740	610	3600	3960	78.4 x 10 ³	45(3)	1000 / 500	30	200 / 3	600	1.83 / 715	1.17	0.92	0.095	0.110	70	3.3 - 5.5	
P214CH06-08	N	P0366WC06x-08x	400-800	15-20	(3)	366	755	590	4700	5170	134 x 10 ³	20(3)	1000 / 500	30	200 / 3	600	1.88 / 715	1.40	0.67	0.095	0.110	70	3.3 - 5.5	
P215CH06-08	N	P0389WC06x-08x	400-800	10-15	(3)	389	780	650	5000	5500	151 x 10 ³	30(3)	1000 / 500	30	200 / 3	600	1.68 / 715	1.05	0.88	0.095	0.110	70	3.3 - 5.5	
P270CH04	N	P0515WC04x	400-600	12-15	(3)	515	1050	835	6500	7150	256 x 10 ³	70(3)	1000 / 500	30	200 / 3	600	1.39 / 1160	0.95	0.377	0.095	0.110	70	3.3 - 5.5	
P280SH04*	Y	P0848YS04x	400-500	12-15	(4)	848	1713	1394	8750	9625	463 x 10 ³	80(4)	1000 / 500	50	200 / 3	600	1.47 / 1490	1.04	0.29	0.050	0.065	80	5.3 -10.0	101A335
P300SH12*	Y	P1007LS12x	1000-1200	20-30	(5)	1007	2069	1611	9500	10450	5.46 x 10 ³	120(5)	1000 / 500	75	300 / 3	1000	1.96 / 1700	1.509	0.27	0.032	0.065	340	10.0 - 20.0	101A336

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* Product is available in alternative housings - refer to Factory

Note 1 I_{TSM} (8.3ms) = I_{TSM} (10ms) x 1.066 I²t (8.3ms) = I²t (10ms) x 0.943

Note 2 V_O Threshold Voltage
r Slope resistance) for conduction loss and heatsink calculations. (Tj = 125°C)

Note 3 A blocking voltage derating factor of 0.13% per degree centigrade is applicable for Tj below 25°C

Note 4 Turn-off Time and Recovered Charge Conditions = 1 (I_{TM} = 50 di/dt = 10 and V_{RM} = 50)
Turn-off Time and Recovered Charge Conditions = 3 (I_{TM} = 300 di/dt = 20 and V_{RM} = 50)