

## FAST SWITCHING DEVICE - Fast Turn Off Thyristors - Stud Types

Old Part Number	PDF Data Sheet Available	New Part Number	V <sub>DRM</sub> V <sub>RRM</sub> Range	Turn-off Time T <sub>q</sub> at 200V/ms	I <sub>TAV</sub> T <sub>CASE</sub> 85°C	I <sub>T(RMS)</sub> at T <sub>CASE</sub> 25°C	I <sub>T</sub> at T <sub>CASE</sub> 55°C	I <sub>TSM(1)</sub> 10ms V <sub>R</sub> £60% V <sub>RRM</sub>	I <sub>TSM(2)</sub> 10ms V <sub>R</sub> £10V	I <sup>2</sup> t (2) 10ms	Qra 50% Chord 125°C Typ	di/dt Non- Rep/Rep	I <sub>DRM</sub> I <sub>RRM</sub>	I <sub>GT</sub> /V <sub>GT</sub> at T <sub>J</sub> 125°C	I <sub>H</sub> at T <sub>J</sub> 125°C	V <sub>TM</sub> at I <sub>TM</sub> at T <sub>J</sub> 125°C	V <sub>o</sub> at T <sub>J</sub> 125°C	r	Rth c-hs		Rth c-hs	Wt (Typ)	Mounting Torque	Outline No.
			Note 3 (V)	Note 4 (ms)	(A)	(A)	(A)	Note 1 (A) (A)		Note 1 (A <sup>2</sup> s)	Note 4 (mC)	(A/ms)	(mA)	(mA)/(V)	(mA)	(V)/(A)	Note 2 (V) (mW)		dc & 180° sine (K/W)	120° Rect (K/W)	(K/W)	(g)	(kgfm <sup>-1</sup> )	
P200PH12	N	P0248SP12x	1000-1200	25-35 (3)	248	355	355	2700	2970	44.1 x 10 <sup>3</sup>	25 (3)	1000/500	30	200/3	600	2.34/600	1.60	1.23	0.12	0.14	0.04	280	2.77 - 2.5	101A225
P202PH12	N	P0273SP12x	1000-1200	25-35 (3)	273	355	355	3250	3575	63.9 x 10 <sup>3</sup>	30 (3)	1000/500	30	200/3	600	2.07/600	1.55	0.87	0.12	0.14	0.04	280	2.77 - 2.5	
P205PH12	N	P0311SP12x	1000-1200	25-35 (3)	311	355	355	3600	3960	78.4 x 10 <sup>3</sup>	45 (3)	1000/500	30	200/3	600	1.72/600	1.17	0.92	0.12	0.14	0.04	280	2.77 - 2.5	
P214PH06-08	N	P0306SP06x-08x	400-800	15-20 (3)	306	355	355	4700	5170	134 x 10 <sup>3</sup>	20 (3)	1000/500	30	200/3	600	1.80/600	1.40	0.67	0.12	0.14	0.04	280	2.77 - 2.5	
P215PH06-08	N	P0330SP06x-08x	400-800	10-15 (3)	330	355	355	5000	5500	151 x 10 <sup>3</sup>	30 (3)	1000/500	30	200/3	600	1.58/600	1.05	0.88	0.12	0.14	0.04	280	2.77 - 2.5	
P270PH04	N	P0431SP04x	400-600	12-15 (3)	431	355	355	6500	7150	256 x 10 <sup>3</sup>	70 (3)	1000/500	30	200/3	600	1.18/600	0.95	0.38	0.12	0.14	0.04	280	2.77 - 2.5	

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- Note 1  $I_{TSM} (8.3ms) = I_{TSM} (10ms) \times 1.066$        $I^2t (8.3ms) = I^2t (10ms) \times 0.943$
- Note 2 V<sub>o</sub> Threshold Voltage  
r Slope resistance ) for conduction loss and heatsink calculations. (T<sub>J</sub> = 125°C)
- Note 3 A blocking voltage derating factor of 0.13% per degree centigrade is applicable for T<sub>J</sub> below 25°C
- Note 4 Turn-off Time and Recovered Charge Conditions = 1 (I<sub>TM</sub> = 50 di/dt = 10 and V<sub>RM</sub> = 50)  
Turn-off Time and Recovered Charge Conditions = 3 (I<sub>TM</sub> = 300 di/dt = 20 and V<sub>RM</sub> = 50)