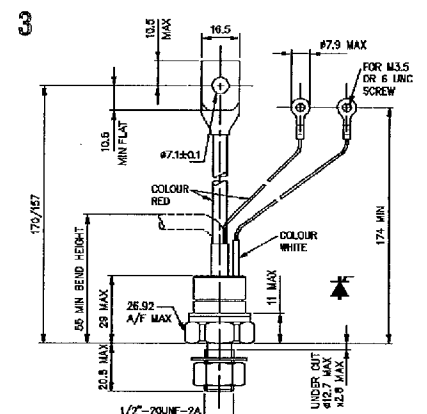
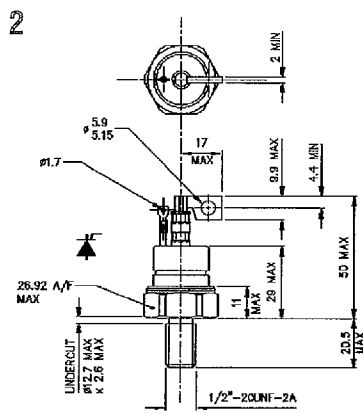
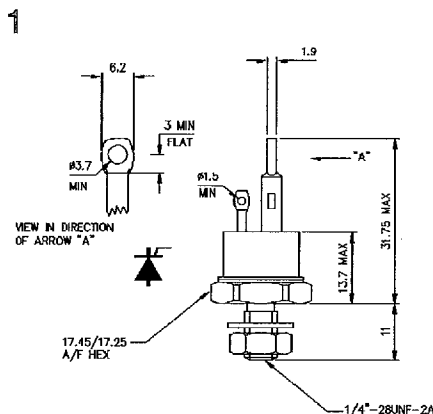


# Fast Turn-off Thyristors ~ Stud & flat base types

Type	$V_{DRM}$ $V_{RRM}$ Range  (Note 3) (V)	Turn-off Time $T_q$ at 200V/ $\mu$ s  (Tables 3,4) ( $\mu$ s)	$I_{TAV}$ $T_{CASE}$ 85°C (A)	$I_{T(RMS)}$ @ 25°C (A)	$I_T$ @ 25°C (A)	$I_{TSM(1)}$ 10ms $V_R \leq 60\%$ $V_{RRM}$ (Note 1) (A)	$I_{TSM(2)}$ 10ms $V_R \leq 10V$ (A)	$I^2t$ (2) 10ms  (Note 1) (A <sup>2</sup> s)	Qra 50% Chord 125°C Typ (Table 4) ( $\mu$ C)	di/dt Non-Rep/ Rep  (A/ $\mu$ s)	$I_{DRM}$ $I_{RRM}$  (mA)
<b>P027RH</b>	200-600 200-1000 200-1200	10-25 (1) 20-25 (1) 30-35 (1)	34	100	100	350	400	610	10 (1)	400/200	10
<b>P036RH</b>	200-600 200-1000 200-1200	10-25 (1) 20-35 (1) 35 (1)	40	100	100	600	690	2380	10 (1)	400/200	10
<b>P042RH</b>	200-600	20-25 (1)	50	100	100	750	860	3725	10 (1)	400/200	10
<b>P080PH</b> <b>P080RH</b>	200-1400	25-40 (2)	75	175	175	1500	1650	$13.6 \times 10^3$	25 (2)	1000/500	20
<b>P086PH</b> <b>P086RH</b>	200-1200	25-40 (2)	85	175	175	1700	1950	$19 \times 10^3$	20 (2)	1000/500	20
<b>P095PH</b> <b>P095RH</b>	200-1200	25-40 (2)	95	175	175	1850	2035	$20.7 \times 10^3$	20 (2)	1000/500	20
<b>P100PH</b> <b>P100RH</b>	200-800	12-30 (2)	85	175	175	1800	1980	$19.6 \times 10^3$	20 (2)	1000/500	20
<b>P105PH</b> <b>P105RH</b>	200-800	12-30 (2)	105	175	175	2200	2420	$29.3 \times 10^3$	20 (2)	1000/500	20
<b>P200PH</b>	200-1200	25-40 (3)	160	355	355	2700	2970	$44.1 \times 10^3$	25 (3)	1000/500	30
<b>P202PH</b>	200-1200	25-40 (3)	175	355	355	3250	3575	$63.9 \times 10^3$	30 (3)	1000/500	30
<b>P205PH</b>	200-1200	30-40 (3)	205	355	355	3600	3960	$78.4 \times 10^3$	45 (3)	1000/500	30
<b>P214PH</b>	200-800	15-30 (3)	195	355	355	4700	5170	$134 \times 10^3$	20 (3)	1000/500	30
<b>P215PH</b>	200-800	10-30 (3)	220	355	355	5000	5500	$151 \times 10^3$	30 (3)	1000/500	30
<b>P270PH</b>	200-500	10-25 (3)	226	355	355	6500	7150	$256 \times 10^3$	70 (3)	1000/500	30
<b>P300KH</b>	200-1200	20-35 (5)	300*	550	550	9500	10450	$546 \times 10^3$	120 (5)	1000/500	75
<b>P370KH</b>	200-800	12-25 (5)	350*	550	550	12300	13500	$910 \times 10^3$	90 (5)	1000/500	75

\* $T_{SINK}$  85°C



$I_{GT} / V_{GT}$	$I_H$	$V_{TM}$ at $I_{TM}$ ( $T_j$ 125°C)	$V_0$ r		Rth j-c		Rth c-hs	Weight	Mounting Torque	Fig. No.	Type
			( $T_j$ 125°C)	( $T_j$ 125°C)	d.c. & 180° sine	120° Rect.					
(mA) (V)	(mA)	(V) (A)	(V)	(mΩ)	(K/W)	(K/W)	(K/W)	(gm)	(Kgm)		
100/3	400	2.57/105	1.52	10	0.5	0.63	0.1	33	0.41-0.48	1	<b>P027R</b>
100/3	400	2.29/126	1.50	6.3	0.45	0.52	0.1	33	0.41-0.48	1	<b>P036R</b>
100/3	400	2.03/157	1.23	5.1	0.45	0.52	0.1	33	0.41-0.48	1	<b>P042R</b>
200/3	600	2.54/280	1.70	3.0	0.23	0.28	0.08	130	1.15-1.45	2 3	<b>P080R</b>
200/3	600	2.28/280	1.64	2.29	0.23	0.28	0.08	130	1.15-1.45	2 3	<b>P086R</b>
200/3	600	1.92/280	1.35	2.04	0.23	0.28	0.08	130	1.15-1.45	2 3	<b>P095R</b>
200/3	600	2.13/280	1.79	1.23	0.23	0.28	0.08	130	1.15-1.45	2 3	<b>P100P</b>
200/3	600	1.71/280	1.32	1.39	0.23	0.28	0.08	130	1.15-1.45	2 3	<b>P105P</b>
200/3	600	2.34/600	1.60	1.23	0.12	0.14	0.04	280	2.5-2.77	4	<b>P200P</b>
200/3	600	2.07/600	1.55	0.87	0.12	0.14	0.04	280	2.5-2.77	4	<b>P202P</b>
200/3	600	1.72/600	1.17	0.92	0.12	0.14	0.04	280	2.5-2.77	4	<b>P205P</b>
200/3	600	1.80/600	1.40	0.67	0.12	0.14	0.04	280	2.5-2.77	4	<b>P214P</b>
200/3	600	1.58/600	1.05	0.88	0.12	0.14	0.04	280	2.5-2.77	4	<b>P215P</b>
200/3	600	1.18/600	0.95	0.377	0.12	0.14	0.04	280	2.5-2.77	4	<b>P270P</b>
300/3	1000	1.72/950	1.43	0.31	0.08*	0.09*	-	1000	1.65-2.07	5	<b>P300K</b>
300/3	1000	1.51/1100	1.20	0.28	0.08*	0.09*	-	1000	1.65-2.07	5	<b>P370K</b>

\*Rth j-hs

