

N Channel MOSFET Line Up

ESD Protection

- ◎ : ESD Level > 2kv
- : Built in ZD between Gate and Source
- × : Not Built in ZD between Gate and Source

HP	Item	V _{DSS} (V)	V _{GSS} (V)	ID (A)	R _{DS(ON)} (Ω) (typ.)					V _{th} (V)		I _{GSS} (μA)	@V _{GSS} (V)	ESD Protection
					@ 1.5v	@ 1.8v	@ 2.5v	@ 4.5v	@ 10v	Min	Max			
G05041A	PT2002N1T	20	± 8	0.20		3.500		1.700		0.50	1.00	± 1	± 8	○
G05024A	PT1602N1T	20	± 8	0.30				1.000		0.65	1.05	± 0.5	± 8	◎
G05007A	PT902N1T	20	± 8	0.50		0.650	0.400	0.250		0.53	1.00	± 1	± 8	○
G05110A	PT22C2N1T	20	± 8	0.70		0.500	0.350	0.250		0.53	0.95	± 2	± 8	○
G05050A	PT2202N1T	20	± 8	0.70		0.500	0.350	0.250		0.53	0.95	± 2	± 8	○
G05096A	PC2202N1T	20	± 8	0.70		0.500	0.350	0.250		0.53	0.95	± 2	± 8	○
G05064A	PT2302N1A	20	± 8	0.95	0.500	0.300	0.200	0.140		0.53	1.10	± 3	± 8	○
G05046A	PT2302N1T	20	± 8	0.95	0.500	0.300	0.200	0.140		0.53	1.10	± 3	± 8	○
G05090A	PC2302N1A	20	± 8	0.95	0.500	0.300	0.200	0.140		0.53	1.10	± 3	± 8	○
G05067A	PT2302N6A	20	± 12	0.95		0.400	0.220	0.130		0.60	1.30	± 10	± 12	○
G05012A	PT1202N1T	20	± 8	2.00		0.170	0.100	0.075		0.53	1.00	± 1	± 8	○
G05032A	PT1802N1T	20	± 8	2.00		0.110	0.060	0.045		0.45	1.00	± 2	± 5	○
G05084A	PC1802N1T	20	± 8	2.00		0.110	0.060	0.045		0.45	1.00	± 2	± 8	○
G05004A	PT1002N1T	20	± 8	4.00		0.070	0.035	0.027		0.53	1.00	± 1	± 8	○
G05073A	PT2402N1T	20	± 8	4.00		0.040	0.030	0.020		0.53	1.00	± 1	± 8	○

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					@ 1.5v	@ 1.8v	@ 2.5v	@ 4.5v	@ 10v	Min	Max			
G05052A	PT2003N3T	30	± 20	0.15			5.500	3.000		0.70	1.50	± 5	± 20	○
G05083A	PT2703N4D	30	± 20	0.20			2.500	1.300	0.800	0.80	1.50	± 10	± 20	○
G05034A	PT1603N3T	30	± 20	0.30				1.700		1.00	2.40	± 5	± 20	○
G05023A	PT1603N1T	30	± 8	0.30		1.800	1.250	1.200		0.55	1.05	± 0.5	± 8	○
G05059A	PT1603N1A	30	± 8	0.30				1.200		0.55	1.05	± 0.5	± 8	○
G05111A	PC16C3N1T	30	± 8	0.30				1.200		0.55	1.05	± 0.5	± 8	◎
G05060A	PT2203N3A	30	± 20	0.50			1.000	0.500		1.00	1.60	± 10	± 20	○
G05045A	PT2203N3T	30	± 20	0.50			1.000	0.500		1.00	1.60	± 10	± 20	○
G05114A	PC2203N3T	30	± 20	0.50			1.000	0.500		1.00	1.60	± 10	± 20	○
G05049A	PT2203N1T	30	± 8	0.70		0.550	0.390	0.280		0.50	1.00	± 3	± 8	○
G05068A	PT2303N3A	30	± 20	0.80				0.250	0.150	1.00	2.50	± 10	± 20	○
G05101A	PT2303N3T	30	± 20	0.80				0.250	0.150	1.00	2.50	± 10	± 20	○
G05058A	PT2303N1A	30	± 8	0.80			0.300	0.200		0.50	1.50	± 3	± 8	○
G05069A	PT2303N5A	30	± 12	0.80			0.260	0.180		0.50	1.50	± 10	± 12	○
G05015A	PT1203N1T	30	± 8	2.00	0.200		0.115			0.53	1.00	± 1	± 8	○
G05033A	PT1803N1T	30	± 8	2.00	0.130	0.120	0.070	0.055		0.45	1.00	± 2	± 8	○
G05055A	PT1803N6A	30	± 12	2.00			0.080	0.050		0.50	1.50	± 10	± 12	◎
G05039A	PT1803N3T	30	± 20	2.00				0.080	0.050	1.10	2.30	± 5	± 20	◎
G05093A	PT2403N3T	30	± 20	4.00				0.039	0.025	1.20	2.00	± 10	± 20	○
G05116A	PT24B3N3T	30	± 20	4.00				0.039	0.025	1.20	2.00	± 10	± 20	○
G05014A	PT1003N1T	30	± 8	4.00		0.080	0.045	0.035		0.53	1.00	± 1	± 8	○

HP	Item	V _{DSS} (V)	V _{GSS} (V)	ID (A)	R _{DS(ON)} (Ω) (typ.)					V _{th} (V)		I _{GSS} (μA)	@V _{GSS} (V)	ESD Protection
					@ 1.5v	@ 1.8v	@ 2.5v	@ 4.5v	@ 10v	Min	Max			
G05094A	PT2006N1T	50	± 8	0.05	10.500		7.000	6.000		0.40	1.30	± 5	± 8	○
G05022A	PT1606N1T	50	± 8	0.15				3.500		0.65	1.05	± 1	± 8	○
G05106A	PC1606N1T	50	± 8	0.15				3.500		0.65	1.05	± 1	± 8	○
G05066A	PT2206N4T	50	± 20	0.30				1.100	1.000	0.50	1.50	± 1	± 10	○
G05013A	PT806N2T	50	± 20	0.30				1.500	1.200	1.00	1.40	± 0.008	± 20	×
G05089A	PT806N4T	50	± 20	0.30				1.300	1.100	0.90	1.60	± 0.008	± 20	×
G05071A	PT2206N4D	50	± 20	0.30				1.000	0.900	0.70	1.50	± 10	± 20	○

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					@ 1.5v	@ 1.8v	@ 2.5v	@ 4.5v	@ 10v	Min	Max			
G05061A	PT2006N3T	60	±20	0.05				8.000	5.500	1.00	2.40	± 5	±20	○
G05081A	PT2706N4D	60	±20	0.10				3.700	3.200	0.80	1.48	±10	±20	○
G05082A	PT2706N3D	60	±20	0.10				3.700	3.200	1.20	2.00	±10	±20	○
G05035A	PT1606N3T	60	±20	0.15				3.500	3.000	1.00	2.00	± 4	±20	○
G05085A	PT2906N3T	60	±20	0.20				1.650	1.400	1.20	2.00	± 0.01	±20	×
G05086A	PT806N1T	63	±20	0.30				1.400	1.100	1.10	2.40	± 0.01	±20	×
G05043A	PT2106N3T	60	±20	0.30				1.400	1.100	1.20	2.00	± 0.01	±20	×
G05042A	PT2206N3T	60	±20	0.30				1.400	1.100	1.20	2.00	± 5	±20	○
G05054A	PT2206N3D	60	±20	0.30				1.400	1.100	1.20	2.00	±10	±20	○
G05070A	PC2206N3D	60	±20	0.30				1.400	1.100	1.20	2.00	±10	±20	○
G05072A	PC2106N3T	60	±20	0.30				1.400	1.100	1.20	2.00	± 0.01	±20	×
G05057A	PT2106N4T	60	±20	0.30				1.000	0.900	0.80	1.60	±10	±20	×
G05095A	PT31B6N3T	60	±20	0.50				0.500	0.400	1.50	2.50	± 0.1	±20	×
G05098A	PT1806N1A	60	±10	1.00			0.220	0.185		0.40	1.30	±10	± 8	◎
G05102A	PT32B6N3T	60	±20	1.00				0.215	0.165	1.50	2.50	± 0.1	±20	×
G05040A	PT1806N3T	60	±20	1.00				0.200	0.150	1.20	2.30	±10	±20	◎
G05065A	PT1806N3A	60	±20	1.00				0.200	0.150	1.20	2.30	±10	±20	◎
G05103A	PT2406N3T	60	±20	3.00				0.100	0.080	1.20	2.00	±10	±20	○

HP	Item	VDSS (V)	VGSS (V)	ID (A)	Rds(ON) (Ω) (typ.)					Vth (V)		Igss (μA)	@VGSS (V)	ESD Protection
					@ 1.5v	@ 1.8v	@ 2.5v	@ 4.5v	@ 10v	Min	Max			
G05092A	PT2810N3T	100	±20	2.00				0.160	0.150	1.50	2.50	±15	±20	○
G05113A	PT3310N3T	100	±20	2.00				0.160	0.150	1.50	2.50	±10	±20	○