

August 5, 2010

## Product Specifications of the New Power MOSFET Products

### Absolute Maximum Ratings (TA = 25°C)

Product Name	Polarity	Drain to Source Voltage	Drain Current (DC)	Total Power Dissipation (TC = 25°C)	Channel to Case Thermal Resistance	Channel Temperature
NP23N06YDG	Nch	60	23	60	2.5	175
NP33N06YDG	Nch	60	33	97	1.55	175
NP35N04YUG	Nch	40	35	77	1.95	175
NP74N04YUG	Nch	40	75	120	1.25	175
NP75N04YUG	Nch	40	75	138	1.09	175
NP50P03YDG	Pch	-30	-50	102	1.47	175
NP75P03YDG	Pch	-30	-75	138	1.09	175
Unit	-	V	A	W	°C/W	°C

### Electrical Characteristics (Ta = 25°C)

Product Name	Gate to Source Threshold Voltage	Drain to Source On-state Resistance (VGS = 10V) max.	Drain to Source On State Resistance (VGS = 5V) max.	Input Capacitance typ.	Total Gate Charge typ.
NP23N06YDG	1.4 ~ 2.5	27	37	1200	27
NP33N06YDG	1.4 ~ 2.5	14	20	2600	52
NP35N04YUG	2.0 ~ 4.0	10	-	1900	36
NP74N04YUG	2.0 ~ 4.0	5.5	-	3620	64
NP75N04YUG	2.0 ~ 4.0	4.8	-	4300	77
NP50P03YDG	-1.0 ~ -2.5	8.4	13	2300	64
NP75P03YDG	-1.0 ~ -2.5	6.2	9.6	3200	94
Unit	V	mΩ	mΩ	pF	nC