

N40V SGT MOSFET for Automotive Motor Drives

Product Introduction

- 1.PDFN5060-8L, DFN3333-8L, TO-252, TO-263, ToLL and other packages;
- 2.It has the characteristics of strong overcurrent capability, low thermal resistance, and wider range of SOA;
- 3.Normal Level gate-source threshold voltage design for automotive motor drive applications (such as electronic power steering systems, body control, electronic water pumps, electronic oil pumps, etc.);
- 4.Specially designed for body diodes, it has better EMI characteristics.



Electrical Parameters

Product Name	Package	Configuration	Type	VDSS (V)	ID (A)	VGS (V)	Tj (°C)	Vth_Typ (V)	Rdson@ VGS10V_TYP (mΩ)	Rdson@ VGS10V_Max (mΩ)	Ciss_Typ (pF)	Qg_Typ (nC)	Grade
YJG300G04HRQ	PDFN5060-8L	Single	N	40	300	±20	175	2.8	0.6	0.85	5410	79	Automotive
YJG320G04HJRQ	PDFN5060-8L	Single	N	40	320	±20	175	2.5	0.85	1.1	7000	88	Automotive
YJT225G04HJQ	TOLL	Single	N	40	225	±20	175	2.5	0.9	1.2	6830	84.3	Automotive
YJG180G04HJRQ	PDFN5060-8L	Single	N	40	180	±20	175	2.5	1.3	1.7	3300	60.8	Automotive
YJG110G04HHQ	PDFN5060-8L	Single	N	40	110	±20	175	3	1.45	1.9	4380	56.56	Automotive
YJB155G04HHQ	TO-263	Single	N	40	155	±20	175	3	1.9	2.5	4650	56.56	Automotive
YJD130G04HHQ	TO-252	Single	N	40	130	±20	175	3	1.9	2.5	4300	56.56	Automotive
YJG60G04HHQ	PDFN5060-8L	Single	N	40	60	±20	175	3	5.2	6.8	1000	12.5	Automotive
YJQ50G04HHQ	DFN3333-8L	Single	N	40	50	±20	175	3	5.3	7	990	12.5	Automotive
YJD60G04HHQ	TO-252	Single	N	40	60	±20	175	3	5.5	7.2	1000	12.5	Automotive
YJGD60G04HJQ	PDFN5060-8L	Single	N	40	60	±20	175	2.6	5.9	7.7	915	17.2	Automotive
YJGD50G04HHQ	PDFN5060-8L	Dual	N	40	50	±20	175	3	6.5	8.5	935	12.5	Automotive

Please Refer to The Official Website for More Details

Application



Electronic Oil Pump



Motor Drive



Electronic power steering system



Electronic Water Pump