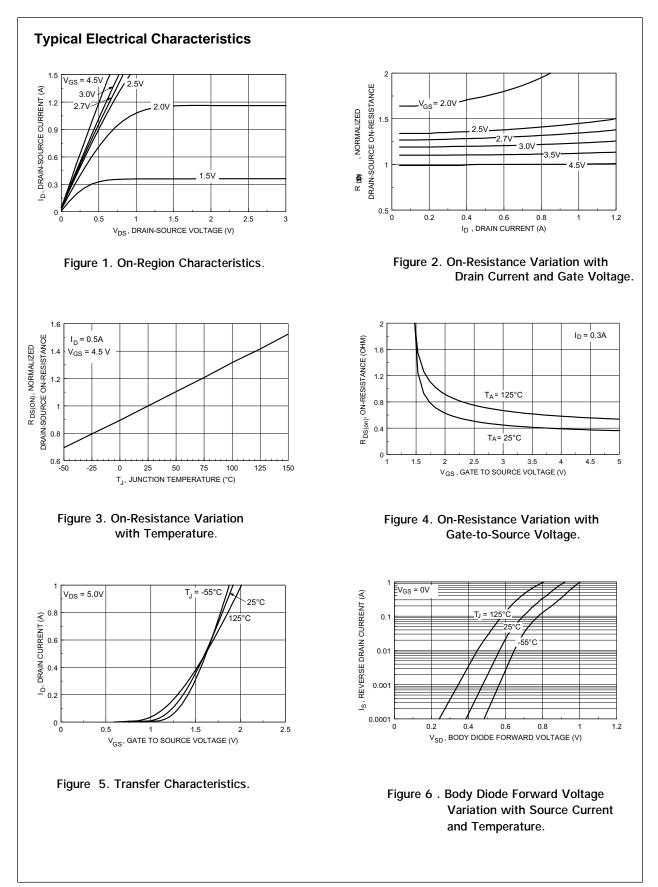


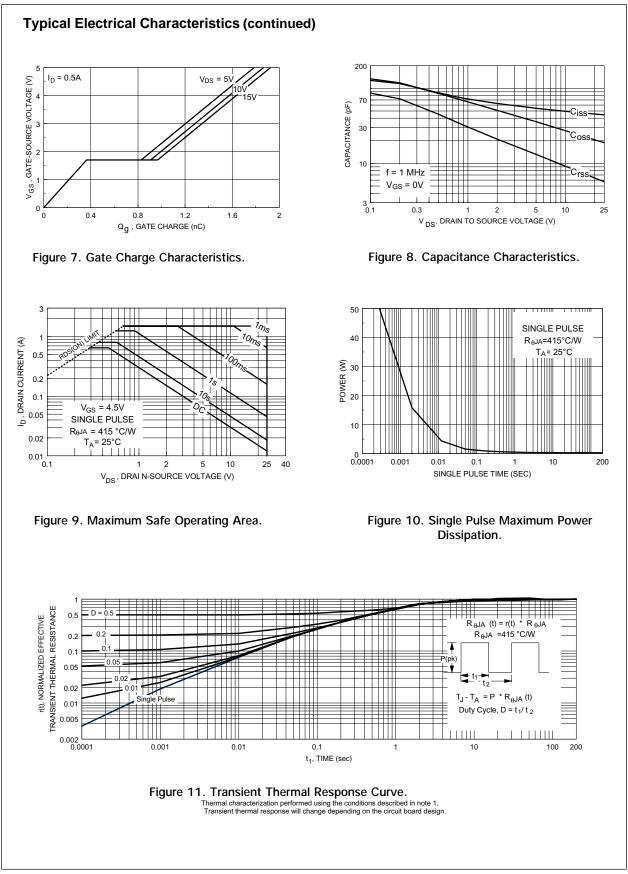
| Symbol | Parameter | Conditions | Min | Тур | Max | Units |
|----------------------------------|-----------------------------------------|-----------------------------------------------------------------------|------|------|------|-------|
| OFF CHAR | ACTERISTICS | | | | | |
| BV _{DSS} | Drain-Source Breakdown Voltage | $V_{GS} = 0 V, I_{D} = 250 \mu A$ | | | | V |
| $\Delta BV_{DSS}/\Delta T_{J}$ | Breakdown Voltage Temp. Coefficient | $I_D = 250 \ \mu$ A, Referenced to 25° C | | 26 | | mV/°C |
| I _{DSS} | Zero Gate Voltage Drain Current | $V_{DS} = 20 V, V_{GS} = 0 V$ | | | 1 | μA |
| | | T _J = 55°C | | | 10 | μA |
| I _{GSS} | Gate - Body Leakage Current | V _{GS} = 8 V, V _{DS} = 0 V | | | 100 | nA |
| ON CHARAC | TERISTICS (Note 2) | | | | | |
| V _{GS(th)} | Gate Threshold Voltage | $V_{DS} = V_{GS}, I_{D} = 250 \mu A$ | 0.65 | 0.8 | 1.5 | V |
| $\Delta V_{GS(th)} / \Delta T_J$ | Gate Threshold Voltage Temp.Coefficient | $I_D = 250 \ \mu$ A, Referenced to 25° C | | -2.6 | | mV/°C |
| R _{DS(ON)} | Static Drain-Source On-Resistance | $V_{GS} = 4.5 V, I_{D} = 0.5 A$ | | 0.34 | 0.45 | Ω |
| | | T _J =125°C | | 0.55 | 0.77 | |
| | | $V_{GS} = 2.7 \text{ V}, I_{D} = 0.2 \text{ A}$ | | 0.44 | 0.6 | |
| I _{D(ON)} | On-State Drain Current | V _{GS} = 2.7 V, V _{DS} = 5 V | 0.5 | | | А |
| 9 _{FS} | Forward Transconductance | $V_{DS} = 5 V, I_{D} = 0.5 A$ | | 1.45 | | S |
| DYNAMIC CI | HARACTERISTICS | | | | | |
| C _{iss} | Input Capacitance | $V_{DS} = 10 \text{ V}, \text{ V}_{GS} = 0 \text{ V},$ f = 1.0 MHz | | 50 | | pF |
| C _{oss} | Output Capacitance | f = 1.0 MHz | | 28 | | pF |
| C _{rss} | Reverse Transfer Capacitance | | | 9 | | pF |
| SWITCHING | CHARACTERISTICS (Note 2) | | | | | |
| t _{D(on)} | Turn - On Delay Time | $V_{DD} = 5 V, I_{D} = 0.5 A,$ | | 3 | 6 | ns |
| ţ | Turn - On Rise Time | $V_{\rm GS}$ = 4.5 V, R _{GEN} = 50 Ω | | 8.5 | 18 | ns |
| t _{D(off)} | Turn - Off Delay Time | | | 17 | 30 | ns |
| t _r | Turn - Off Fall Time | | | 13 | 25 | ns |
| Q _g | Total Gate Charge | $V_{DS} = 5 V, I_D = 0.5 A,$ | | 1.64 | 2.3 | nC |
| Q _{gs} | Gate-Source Charge | $V_{GS}^{0} = 4.5 V^{0}$ | | 0.38 | | nC |
| Q _{gd} | Gate-Drain Charge | | | 0.45 | | nC |
| DRAIN-SOU | RCE DIODE CHARACTERISTICS AND MAXIM | UMRATINGS | | | | |
| l _s | Maximum Continuous Source Current | kimum Continuous Source Current | | | 0.25 | Α |
| V _{SD} | Drain-Source Diode Forward Voltage | $V_{GS} = 0 V, I_{S} = 0.25 A$ (Note 2) | | 0.8 | 1.2 | V |

Notes:

1. R_{pk} is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins. R_{pkc} is guaranteed y_{μμ}A
by design while R_{μcA} is determined by the user's board design. R_{μJA} = 415°C/W on minimum pad mounting on FR-4 board in still air.
Pulse Test: Pulse Width ≤ 300µs, Duty Cycle ≤ 2.0%.



FDG6313N Rev. A



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Rev. I11