

Absolute Maximum Ratings (Ta = 25°C)

| Symbol | Ratings | Unit |
|---------------------------|----------------|------|
| V _{DSS} | 450 | V |
| V _{GSS} | ±30 | V |
| I _D | ±10 | A |
| I _D (pulse) *1 | ±40 | A |
| P _D | 75 (Tc = 25°C) | W |
| E _{AS} *2 | 300 | mJ |
| I _{AS} | 10 | A |
| T _{ch} | 150 | °C |
| T _{stg} | -55 to +150 | °C |

*1: Pw ≤ 100μs, duty cycle ≤ 1%
 *2: V_{DD} = 30V, L = 6mH, I_L = 10A, unclamped, R_G = 50Ω, See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25°C)

| Symbol | Ratings | | | Unit | Conditions |
|-----------------------|---------|------|------|------|---|
| | min | typ | max | | |
| V _(BR) DSS | 450 | | | V | I _D = 100μA, V _{GS} = 0V |
| I _{GSS} | | | ±100 | nA | V _{GS} = ±30V |
| I _{DSS} | | | 100 | μA | V _{DS} = 450V, V _{GS} = 0V |
| V _{TH} | 2.0 | 3.0 | 4.0 | V | V _{DS} = 10V, I _D = 1mA |
| Re (yfs) | 5 | 7 | | S | V _{DS} = 20V, I _D = 5A |
| R _{DS} (on) | | 0.66 | 0.80 | Ω | V _{GS} = 10V, I _D = 5A |
| C _{iss} | | 1000 | | pF | V _{DS} = 10V, f = 1.0MHz, V _{GS} = 0V |
| C _{oss} | | 200 | | pF | |
| C _{rss} | | 95 | | pF | |
| t _d (on) | | 25 | | ns | I _D = 5A, V _{DD} = 200V, R _L = 40Ω, V _{GS} = 10V, See Figure 2 on Page 5. |
| t _r | | 30 | | ns | |
| t _d (off) | | 85 | | ns | |
| t _f | | 45 | | ns | |
| V _{SD} | | 1.0 | 1.5 | V | I _{SD} = 10A, V _{GS} = 0V |

