

2SK1184

External dimensions 1 FM20

Absolute Maximum Ratings (Ta = 25°C)

| Symbol | Ratings | Unit |
|------------------------|-------------------------------|------|
| V _{DSS} | 200 | V |
| V _{GSS} | ±20 | V |
| I _D | ±5 | A |
| I _D (pulse) | ±20 (T _{ch} ≤ 150°C) | A |
| P _D | 30 (T _c = 25°C) | W |
| EAS * | 67 | mJ |
| T _{ch} | 150 | °C |
| T _{stg} | -55 to +150 | °C |

*: V_{DD} = 50V, L = 4mH, I_L = 5.0A, unclamped, See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25°C)

| Symbol | Ratings | | | Unit | Conditions |
|-----------------------|---------|-----|------|------|---|
| | min | typ | max | | |
| V _(BR) DSS | 200 | | | V | I _D = 250μA, V _{GS} = 0V |
| I _{GSS} | | | ±500 | nA | V _{GS} = ±20V |
| I _{DSS} | | | 250 | μA | V _{DS} = 200V, V _{GS} = 0V |
| V _{TH} | 2.0 | | 4.0 | V | V _{DS} = 10V, I _D = 250μA |
| Re (yfs) | 1.3 | 2.5 | | S | V _{DS} = 10V, I _D = 2.5A |
| R _{DS(on)} | | 0.5 | 0.8 | Ω | V _{GS} = 10V, I _D = 2.5A |
| C _{iss} | | 260 | | pF | V _{DS} = 25V, f = 1.0MHz, V _{GS} = 0V |
| C _{oss} | | 100 | | pF | |
| t _{on} | | 50 | | ns | I _D = 2.5A, V _{DD} = 100V, V _{GS} = 10V, See Figure 2 on Page 5. |
| t _{off} | | 60 | | ns | |

