

MOS FET FKV560S

Absolute Maximum Ratings (Ta=25°C)

| Symbol | Ratings | Unit |
|-------------------------|--------------|------|
| V _{DSS} | 50 | V |
| V _{GSS} | ±20 | V |
| I _D | ±45 | A |
| I _{D (pulse)*} | ±135 | A |
| P _D | 60 (Tc=25°C) | W |
| T _{ch} | 150 | °C |
| T _{stg} | -55 to +150 | °C |

* P_W ≦ 100μs, duty ≦ 1%

Electrical Characteristics (Ta=25°C)

| Symbol | Test Conditions | Ratings | | | Unit |
|-----------------------|---|---------|---------------|-----|------|
| | | min | typ | max | |
| V _{(BR) DSS} | I _D = 100μA, V _{GS} = 0V | 50 | | | V |
| I _{GSS} | V _{GS} = +20V | | | +10 | μA |
| | V _{GS} = -20V | | | -5 | μA |
| I _{DSS} | V _{DS} = 50V, V _{GS} = 0V | | | 100 | μA |
| V _{TH} | V _{DS} = 10V, I _D = 250μA | 1.0 | | 2.0 | V |
| R _{e (yfs)} | V _{DS} = 10V, I _D = 25A | 20.0 | | | S |
| R _{DS (ON)} | V _{GS} = 10V, I _D = 25A | | 9 | 11 | mΩ |
| C _{iss} | V _{DS} = 10V | | 2000 | | pF |
| C _{oss} | f = 1.0MHz | | 1000 | | pF |
| C _{rss} | V _{GS} = 0V | | 150 | | pF |
| t _{d (on)} | I _D = 25A | | | | ns |
| t _r | V _{DD} ≐ 12V | | To be defined | | ns |
| t _{d (off)} | R _L = 0.48Ω | | | | ns |
| t _f | V _{GS} = 10V | | | | ns |
| V _{SD} | I _{SD} = 50A, V _{GS} = 0V | | 1.0 | 1.5 | V |

External Dimensions TO220S

