

MOS FET FKV460S

絶対最大定格

(Ta=25°C)

| 記号 | 規格値 | 単位 |
|-------------------------|---------------------------|----|
| V _{DSS} | 40 | V |
| V _{GSS} | +20, -10 | V |
| I _D | ±60 | A |
| I _{D(pulse)} * | ±180 | A |
| P _D | 60 (T _c =25°C) | W |
| T _{ch} | 150 | °C |
| T _{stg} | -55~+150 | °C |

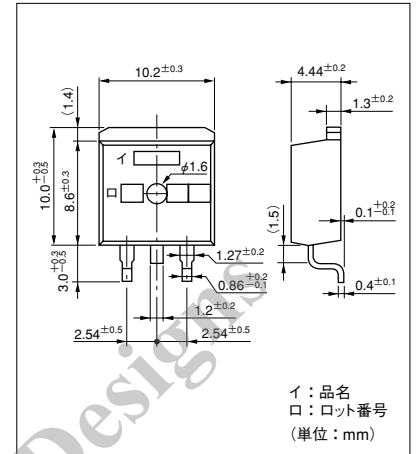
*P_W≤100μs, duty≤1%

電気的特性

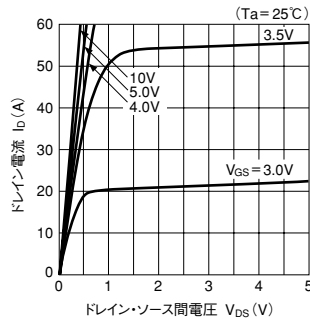
(Ta=25°C)

| 記号 | 試験条件 | 規格値 | | | 単位 |
|----------------------|--|-----|------|-----|----|
| | | min | typ | max | |
| V _{(BR)DSS} | I _D =100μA, V _{GS} =0V | 40 | | | V |
| I _{GSS} | V _{DS} =+20V V _{GS} =-10V | | +10 | -5 | μA |
| I _{DSS} | V _{DS} =40V, V _{GS} =0V | | | 100 | μA |
| V _{TH} | V _{DS} =10V, I _D =250μA | 1.0 | | 2.5 | V |
| R _{e(yf)} | V _{DS} =10V, I _D =25A | 20 | | | S |
| R _{DS(ON)} | V _{GS} =10V, I _D =25A | | 7 | 9 | mΩ |
| C _{iss} | V _{DS} =10V f=1.0MHz | | 2800 | | pF |
| C _{oss} | | | 1400 | | pF |
| C _{rss} | V _{GS} =0V | | 600 | | pF |
| t _{d(on)} | I _D =25A | | 20 | | ns |
| t _r | V _{DD} =12V R _L =0.48Ω | | 600 | | ns |
| t _{d(off)} | | | 250 | | ns |
| t _f | V _{GS} =10V | | 100 | | ns |
| V _{SD} | I _{SD} =50A, V _{GS} =0V | 1.0 | | 1.5 | V |

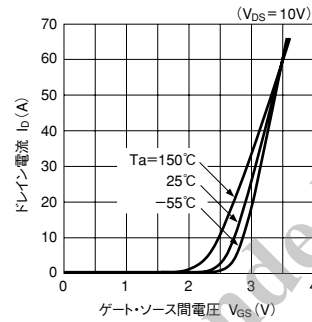
外形図 TO220S



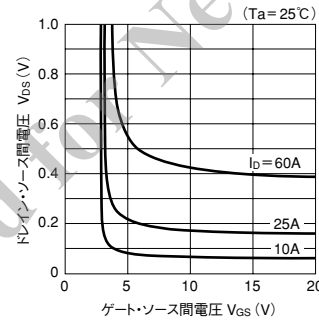
■ I_D-V_{DS} 特性 (代表例)



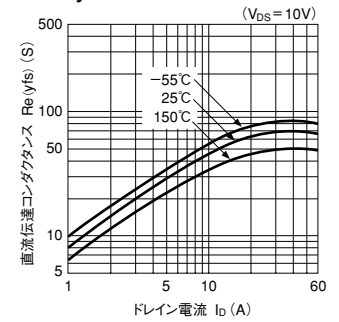
■ I_D-V_{GS} 特性 (代表例)



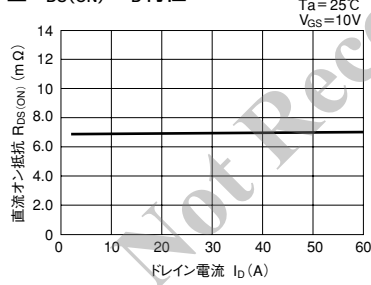
■ V_{DS}-V_{GS} 特性 (代表例)



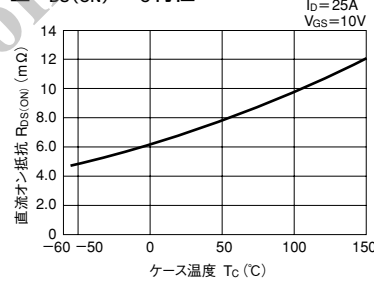
■ R_{e(yf)}-I_D 特性



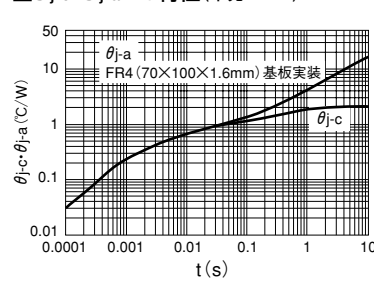
■ R_{DS(ON)}-I_D 特性



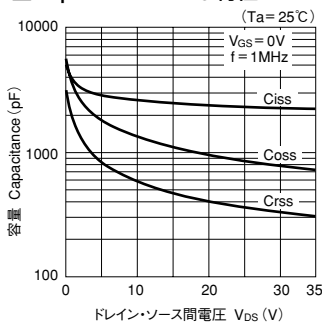
■ R_{DS(ON)}-T_c 特性



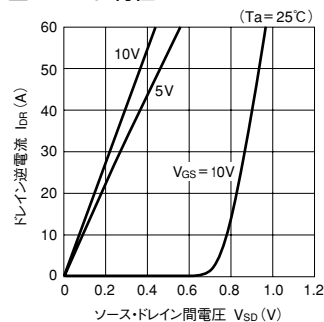
■ θ_{j-c}·θ_{j-a}-t 特性 (単発パルス)



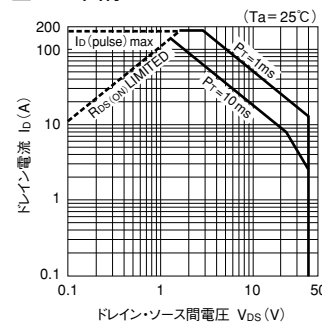
■ Capacitance-V_{DS} 特性



■ I_{DR}-V_{SD} 特性



■ ASO 曲線 (単発パルス)



■ P_D-T_c 特性

