

2SK2708

External dimensions 1 FM20

Absolute Maximum Ratings (Ta = 25°C)

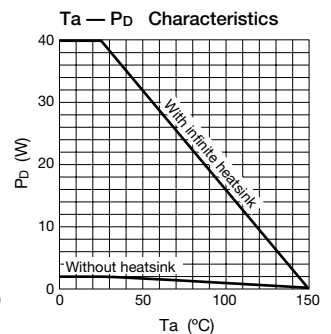
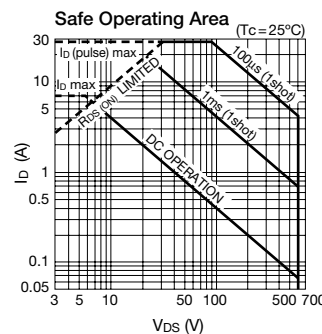
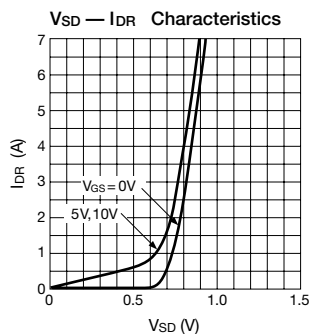
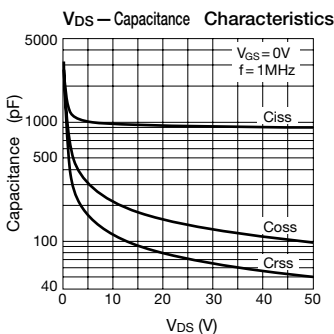
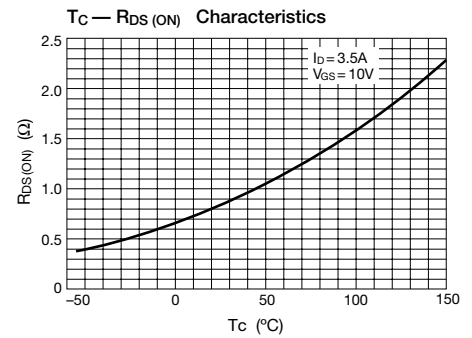
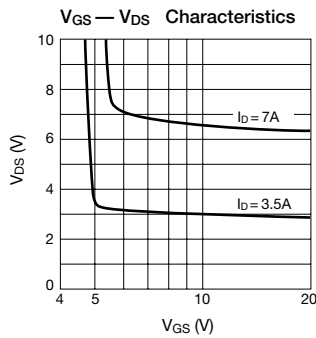
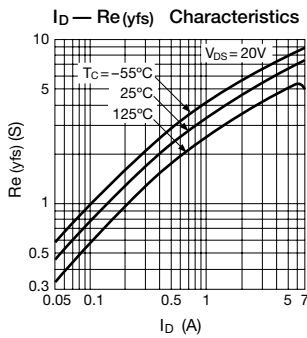
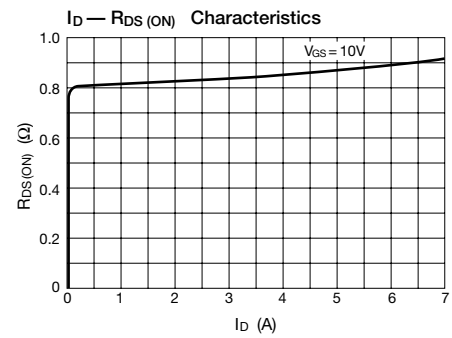
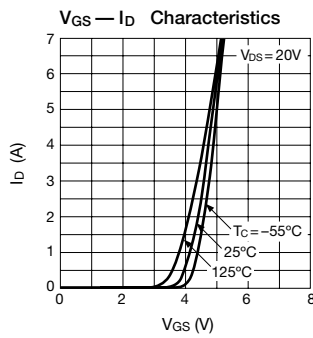
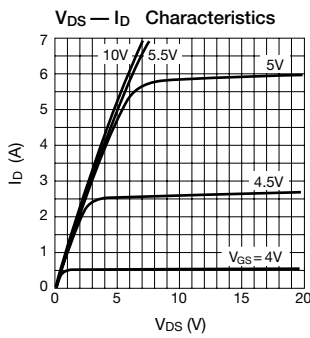
| Symbol | Ratings | Unit |
|---------------------------|----------------------------|------|
| V _{DSS} | 600 | V |
| V _{GSS} | ±30 | V |
| I _D | ±7 | A |
| I _D (pulse) *1 | ±28 | A |
| P _D | 40 (T _c = 25°C) | W |
| E _{AS} *2 | 150 | mJ |
| I _{AS} | 7 | A |
| T _{ch} | 150 | °C |
| T _{stg} | -55 to +150 | °C |

*1: P_W ≤ 100μs, duty cycle ≤ 1%

*2: V_{DD} = 30V, L = 6mH, I_L = 7A, 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 | 600 | | | V | I _D = 100μA, V _{GS} = 0V |
| I _{GSS} | | | ±100 | nA | V _{GS} = ±30V |
| I _{DSS} | | | 100 | μA | V _{DS} = 600V, V _{GS} = 0V |
| V _{TH} | 2.0 | 3.0 | 4.0 | V | V _{DS} = 10V, I _D = 1mA |
| Re (yfs) | 4.0 | 6.0 | | S | V _{DS} = 20V, I _D = 3.5A |
| R _{DS} (on) | | 0.85 | 1.1 | Ω | V _{GS} = 10V, I _D = 3.5A |
| C _{iss} | | 950 | | pF | V _{DS} = 10V, f = 1.0MHz, V _{GS} = 0V |
| C _{oss} | | 220 | | pF | |
| C _{rss} | | 120 | | pF | |
| t _d (on) | | 30 | | ns | I _D = 3.5A, V _{DD} = 250V, R _L = 71Ω, V _{GS} = 10V, See Figure 2 on Page 5. |
| t _r | | 27 | | ns | |
| t _d (off) | | 100 | | ns | |
| t _f | | 50 | | ns | |
| V _{SD} | | 0.9 | 1.5 | V | |



This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.