

2SK2706

External dimensions 2 FM100

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Rated	Unit
V _{DSS}	450	V
V _{GSS}	±30	V
I _D	±18	A
I _D (pulse) *1	±72	A
P _D	85 (T _C = 25°C)	W
E _{AS} *2	700	mJ
I _{AS}	18	A
T _{ch}	150	°C
T _{stg}	-55 to +150	°C

*1: P_w ≤ 100μs, duty cycle ≤ 1%

*2: V_{DD} = 30V, L = 4mH, I_L = 18A, 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
R _e (yfs)	10	15		S	V _{DS} = 20V, I _D = 9A
R _{DS} (on)		0.24	0.30	Ω	V _{GS} = 10V, I _D = 9A
C _{iss}		2500		pF	V _{DS} = 10V, f = 1.0MHz, V _{GS} = 0V
C _{oss}		500		pF	
C _{rss}		260		pF	
t _d (on)		40		ns	I _D = 9A, V _{DD} = 200V, R _L = 22Ω, V _{GS} = 10V, See Figure 2 on Page 5.
t _r		60		ns	
t _d (off)		170		ns	
t _f		85		ns	
V _{SD}		1.0	1.5	V	I _{SD} = 18A, V _{GS} = 0V

