

2SK1186

External dimensions 1 FM20

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Rated	Unit
V _{DSS}	100	V
V _{GSS}	±20	V
I _D	±9	A
I _D (pulse)	±36 (T _{ch} ≤ 150°C)	A
P _D	30 (T _c = 25°C)	W
E _{AS} *	32	mJ
T _{ch}	150	°C
T _{stg}	-55 to +150	°C

*: V_{DD} = 25V, L = 600μH, I_L = 9.0A, unclamped, See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
V _(BR) DSS	100			V	I _D = 250μA, V _{GS} = 0V
I _{GSS}			±500	nA	V _{GS} = ±20V
I _{DSS}			250	μA	V _D = 100V, V _{GS} = 0V
V _{TH}	2.0		4.0	V	V _D = 10V, I _D = 250μA
Re (yfs)	2.4	3.7		S	V _D = 10V, I _D = 4.5A
R _{DS} (on)		0.24	0.27	Ω	V _{GS} = 10V, I _D = 4.5A
C _{iss}		350		pF	V _D = 25V, f = 1.0MHz, V _{GS} = 0V
C _{oss}		130		pF	
t _{on}		60		ns	I _D = 4.5A, V _{DD} = 50V, V _{GS} = 10V, See Figure 2 on Page 5.
t _{off}		40		ns	

