

2SK1183

External dimensions 1 FM20

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V _{DSS}	200	V
V _{GSS}	±20	V
I _D	±3	A
I _D (pulse)	±12 (T _{ch} ≤ 150°C)	A
P _D	25 (T _c = 25°C)	W
E _{AS} *	30	mJ
T _{ch}	150	°C
T _{stg}	-55 to +150	°C

*: V_{DD} = 50V, L = 6mH, I_L = 3.0A, unclamped, See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
V _{(BR) DSS}	200			V	I _D = 250μA, V _{GS} = 0V
I _{GSS}			±500	nA	V _{GS} = ±20V
I _{bSS}			250	μA	V _{DS} = 200V, V _{GS} = 0V
V _{TH}	2.0		4.0	V	V _{DS} = 10V, I _D = 250μA
Re (yfs)	0.8	1.2		S	V _{DS} = 10V, I _D = 1.5A
R _{DS (on)}		1.2	1.5	Ω	V _{GS} = 10V, I _D = 1.5A
C _{iss}		140		pF	V _{DS} = 25V, f = 1.0MHz, V _{GS} = 0V
C _{oss}		42		pF	V _{DS} = 25V, f = 1.0MHz, V _{GS} = 0V
t _{on}		35		ns	I _D = 1.5A, V _{DD} = 100V, V _{GS} = 10V, See Figure 2 on Page 5.
t _{off}		50		ns	I _D = 1.5A, V _{DD} = 100V, V _{GS} = 10V, See Figure 2 on Page 5.

