

2SK2779

External dimensions 1 FM20

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Rated	Unit
V _{DSS}	100	V
V _{GSS}	±20	V
I _D	±20	A
I _D (pulse) *1	±80	A
P _D	35 (T _C = 25°C)	W
E _{AS} *2	200	mJ
I _{AS}	20	A
T _{ch}	150	°C
T _{stg}	-55 to +150	°C

*1: P_w ≤ 100μs, duty cycle ≤ 1%

*2: V_{DD} = 25V, L = 750μH, I_L = 20A, 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}	100			V	I _D = 100μA, V _{GS} = 0V
I _{GSS}			±100	nA	V _{GS} = ±20V
I _{DSS}			100	μA	V _D = 100V, V _{GS} = 0V
V _{TH}	1.0		2.0	V	V _D = 10V, I _D = 250μA
Re (yfs)	12	20		S	V _D = 10V, I _D = 10A
R _{DS (on)}		60	80	mΩ	V _{GS} = 10V, I _D = 10A
		75	95	mΩ	V _{GS} = 4V, I _D = 10A
C _{iss}	1630			pF	V _D = 10V, f = 1.0MHz, V _{GS} = 0V
C _{oss}	480			pF	
C _{rss}	180			pF	
t _{d (on)}		20		ns	I _D = 10A, V _{DD} = 50V, R _L = 5Ω, V _{GS} = 10V, See Figure 2 on Page 5.
t _r		90		ns	
t _{d (off)}		120		ns	
t _f		55		ns	
V _{SD}	1.0	1.5		V	I _{SD} = 20A, V _{GS} = 0V

