

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V _{DSS}	200	V
V _{GSS}	±20	V
I _D	±8	A
I _D (pulse) *1	±32	A
P _D	30 (Tc = 25°C)	W
E _{AS} *2	55	mJ
I _{AS}	8	A
T _{ch}	150	°C
T _{stg}	–55 to +150	°C

*1: P_w ≤ 100μs, duty cycle ≤ 1%

*2: V_{DD} = 50V, L = 1.5mH, I_L = 8A, 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}	200			V	I _D = 100μA, V _{GS} = 0V
I _{GSS}			±100	nA	V _{GS} = ±20V
I _{DSS}			100	μA	V _{DS} = 200V, V _{GS} = 0V
V _{TH}	2.0		4.0	V	V _{DS} = 10V, I _D = 1mA
Re (yfs)	2.5	5.5		S	V _{DS} = 10V, I _D = 4A
R _{DS(on)}		270	350	mΩ	V _{GS} = 10V, I _D = 4A
C _{iss}		450		pF	V _{DS} = 10V, f = 1.0MHz, V _{GS} = 0V
C _{oss}		280		pF	
C _{rss}		120		pF	
t _{d(on)}		15		ns	I _D = 4A, V _{DD} ≐ 100V, R _L = 25Ω, V _{GS} = 10V, See Figure 2 on Page 5.
t _r		25		ns	
t _{d(off)}		50		ns	
t _f		65		ns	
V _{SD}		1.0	1.5	V	I _{SD} = 8A, V _{GS} = 0V
t _{rr}		450		ns	I _{SD} = ±100mA