

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V _{DSS}	60	V
V _{GSS}	±20	V
I _D	±30	A
I _D (pulse) *1	±120	A
P _D	40 (Tc = 25°C)	W
E _{AS} *2	38	mJ
T _{ch}	150	°C
T _{stg}	-55 to +150	°C

*1: P_W ≤ 100μs, duty cycle ≤ 1%

*2: V_{DD} = 50V, L = 50μH, I_L = 30A, 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	60			V	I _D = 100μA, V _{GS} = 0V
I _{GSS}			±100	nA	V _{GS} = ±20V
I _{DSS}			100	μA	V _{DS} = 60V, V _{GS} = 0V
V _{TH}	2.0		4.0	V	V _{DS} = 10V, I _D = 250μA
Re (yfs)	13	20		S	V _{DS} = 10V, I _D = 15A
R _{DS} (on)		21	28	mΩ	V _{GS} = 10V, I _D = 15A
Ciss		2200		pF	V _{DS} = 25V, f = 1.0MHz, V _{GS} = 0V
Coss		850		pF	V _{DS} = 25V, f = 1.0MHz, V _{GS} = 0V
t _{on}		210		ns	I _D = 15A, V _{DD} = 30V, R _L = 2Ω, V _{GS} = 10V, See Figure 2 on Page 5.
t _{off}		145		ns	

