

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V_{DS}	600	V
V_{GS}	± 30	V
I_D	± 2	A
I_D (pulse) *1	± 8	A
P_D	30 (Tc = 25°C)	W
E_{AS} *2	10	mJ
I_{AS}	2	A
Tch	150	°C
Tstg	-55 to +150	°C

*1: $P_W \leq 100\mu s$, duty cycle $\leq 1\%$

*2: $V_{DD} = 30V$, $L = 5mH$, $I_L = 2.0A$, unclamped, $R_G = 50\Omega$, See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
$V_{(BR) DSS}$	600			V	$I_D = 100\mu A$, $V_{GS} = 0V$
I_{GSS}			± 100	nA	$V_{GS} = \pm 30V$
I_{DSS}			100	μA	$V_{DS} = 600V$, $V_{GS} = 0V$
V_{TH}	2.0	3.0	4.0	V	$V_{DS} = 10V$, $I_D = 250\mu A$
R_e (yfs)	1.2	1.7		S	$V_{DS} = 20V$, $I_D = 1A$
$R_{DS(on)}$		3.0	3.8	Ω	$V_{GS} = 10V$, $I_D = 1A$
C_{iss}		290		pF	$V_{DS} = 10V$, $f = 1.0MHz$, $V_{GS} = 0V$
C_{oss}		70		pF	
C_{rss}		30		pF	
t_d (on)		16		ns	$I_D = 1A$, $V_{DD} \approx 250V$, $R_L = 250\Omega$, $V_{GS} = 10V$, See Figure 2 on Page 5.
t_r		30		ns	
t_d (off)		45		ns	
t_f		145		ns	
V_{SD}		0.9	1.4	V	$I_{SD} = 2.0A$, $V_{GS} = 0V$

