

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V_{DS}	500	V
V_{GS}	± 20	V
I_D	± 8.5	A
I_D (pulse)	± 34 ($T_{ch} \leq 150^\circ\text{C}$)	A
P_D	85 ($T_c = 25^\circ\text{C}$)	W
E_{AS}^*	400	mJ
T_{ch}	150	$^\circ\text{C}$
T_{stg}	-55 to +150	$^\circ\text{C}$

*: $V_{DD} = 50V$, $L = 10mH$, $I_L = 8.5A$, unclamped,
See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
$V_{(BR) DSS}$	500			V	$I_D = 250\mu A$, $V_{GS} = 0V$
I_{GSS}			± 500	nA	$V_{GS} = \pm 20V$
I_{DSS}			250	μA	$V_{DS} = 500V$, $V_{GS} = 0V$
V_{TH}	2.0		4.0	V	$V_{DS} = 10V$, $I_D = 250\mu A$
$R_{e (yfs)}$	5.1	7.7		S	$V_{DS} = 10V$, $I_D = 4.5A$
$R_{DS (on)}$		0.70	0.85	Ω	$V_{GS} = 10V$, $I_D = 4.5A$
C_{iss}		1300		pF	$V_{DS} = 25V$, $f = 1.0MHz$, $V_{GS} = 0V$
C_{oss}		180		pF	
t_{on}		60		ns	$I_D = 4.5A$, $V_{DD} = 250V$, $V_{GS} = 10V$, See Figure 2 on Page 5.
t_{off}		110		ns	

