

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V_{DSS}	500	V
V_{GSS}	± 20	V
I_D	± 13	A
I_D (pulse)	± 52 ($T_{ch} \leq 150^\circ\text{C}$)	A
P_D	85 ($T_c = 25^\circ\text{C}$)	W
E_{AS}^*	660	mJ
T_{ch}	150	$^\circ\text{C}$
T_{stg}	-55 to +150	$^\circ\text{C}$

*: $V_{DD} = 50\text{V}$, $L = 7\text{mH}$, $I_L = 13\text{A}$, unclamped,
See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
$V_{(BR) DSS}$	500			V	$I_D = 250\mu\text{A}$, $V_{GS} = 0\text{V}$
I_{GSS}			± 500	nA	$V_{GS} = \pm 20\text{V}$
I_{BSS}			250	μA	$V_{DS} = 500\text{V}$, $V_{GS} = 0\text{V}$
V_{TH}	2.0		4.0	V	$V_{DS} = 10\text{V}$, $I_D = 250\mu\text{A}$
$R_{e (yfs)}$	8.5	13		S	$V_{DS} = 10\text{V}$, $I_D = 6.5\text{A}$
$R_{DS (on)}$		0.35	0.4	Ω	$V_{GS} = 10\text{V}$, $I_D = 6.5\text{A}$
C_{iss}		2700		pF	$V_{DS} = 25\text{V}$, $f = 1.0\text{MHz}$, $V_{GS} = 0\text{V}$
C_{oss}		350		pF	
t_{on}		65		ns	$I_D = 6.5\text{A}$, $V_{DD} = 250\text{V}$, $V_{GS} = 10\text{V}$, See Figure 2 on Page 5.
t_{off}		180		ns	

