

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V_{DS}	60	V
V_{GS}	± 20	V
I_D	± 40	A
I_D (pulse) *1	± 160	A
P_D	40 (Tc = 25°C)	W
E_{AS} *2	60	mJ
I_{AS}	40	A
Tch	150	°C
Tstg	-55 to +150	°C

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

*2: $V_{DD} = 20V$, $L = 50\mu H$, $I_L = 40A$, unclamped, $R_G = 50\Omega$,
See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
$V_{(BR) DSS}$	60			V	$I_D = 100\mu A$, $V_{GS} = 0V$
I_{GSS}			± 100	nA	$V_{GS} = \pm 20V$
I_{DSS}			100	μA	$V_{DS} = 60V$, $V_{GS} = 0V$
V_{TH}	2.0		4.0	V	$V_{DS} = 10V$, $I_D = 1mA$
R_e (yfs)	18	25		S	$V_{DS} = 10V$, $I_D = 20A$
$R_{DS(on)}$		17.5	20	m Ω	$V_{GS} = 10V$, $I_D = 20A$
C_{iss}		2400		pF	$V_{DS} = 25V$, $f = 1.0MHz$, $V_{GS} = 0V$
C_{oss}		950		pF	
t_{on}		400		ns	$I_D = 20A$, $V_{DD} \approx 30V$, $R_L = 1.5\Omega$, $V_{GS} = 10V$, See Figure 2 on Page 5.
t_{off}		195		ns	

