

### Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V <sub>DSS</sub>	60	V
V <sub>GSS</sub>	±20	V
I <sub>D</sub>	±22	A
I <sub>D</sub> (pulse) *	±88	A
P <sub>D</sub>	30 (Tc = 25°C)	W
E <sub>AS</sub>		mJ
T <sub>ch</sub>	150	°C
T <sub>stg</sub>	-55 to +150	°C

\*: P<sub>w</sub> ≤ 100μs, duty cycle ≤ 1%

### Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
V <sub>(BR) DSS</sub>	60			V	I <sub>D</sub> = 100μA, V <sub>GS</sub> = 0V
I <sub>GSS</sub>			±100	nA	V <sub>GS</sub> = ±20V
I <sub>DSS</sub>			100	μA	V <sub>DS</sub> = 60V, V <sub>GS</sub> = 0V
V <sub>TH</sub>	2.0		4.0	V	V <sub>DS</sub> = 10V, I <sub>D</sub> = 250μA
Re (yfs)				S	V <sub>DS</sub> = 10V, I <sub>D</sub> = 12A
R <sub>DS (on)</sub>			37	mΩ	V <sub>GS</sub> = 10V, I <sub>D</sub> = 12A
C <sub>iss</sub>		1300		pF	V <sub>DS</sub> = 25V, f = 1.0MHz, V <sub>GS</sub> = 0V
C <sub>oss</sub>				pF	
t <sub>on</sub>				ns	I <sub>D</sub> = 12A, V <sub>DD</sub> ≈ 30V, V <sub>GS</sub> = 10V
t <sub>off</sub>				ns	