

# 2SJ425

External dimensions 1 ..... FM20

## 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>	±8	A
I <sub>D</sub> (pulse)	±32 (T <sub>ch</sub> ≤ 150°C)	A
P <sub>D</sub>	30 (T <sub>c</sub> = 25°C)	W
T <sub>ch</sub>	150	°C
T <sub>stg</sub>	-55 to +150	°C

## Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
V <sub>(BR) DSS</sub>	-60			V	I <sub>D</sub> = -250μA, V <sub>GS</sub> = 0V
I <sub>GSS</sub>			±500	nA	V <sub>GS</sub> = ±20V
I <sub>DSS</sub>			-250	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
R <sub>e</sub> (yfs)	1.8	2.8		S	V <sub>DS</sub> = -10V, I <sub>D</sub> = -4.0A
R <sub>DS (on)</sub>		0.2	0.28	Ω	V <sub>GS</sub> = -10V, I <sub>D</sub> = -4.0A
C <sub>iss</sub>		580		pF	V <sub>DS</sub> = -25V, f = 1.0MHz, V <sub>GS</sub> = 0V
C <sub>oss</sub>		360		pF	V <sub>DS</sub> = -25V, f = 1.0MHz, V <sub>GS</sub> = 0V
t <sub>on</sub>		90		ns	I <sub>D</sub> = -4.0A, V <sub>DD</sub> = -30V, V <sub>GS</sub> = -10V, See Figure 3 on Page 5.
t <sub>off</sub>		45		ns	I <sub>D</sub> = -4.0A, V <sub>DD</sub> = -30V, V <sub>GS</sub> = -10V, See Figure 3 on Page 5.

