

2SJ425

External dimensions 1 FM20

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V_{DS}	-60	V
V_{GS}	± 20	V
I_D	± 8	A
I_D (pulse)	± 32 ($T_{ch} \leq 150^\circ\text{C}$)	A
P_D	30 ($T_c = 25^\circ\text{C}$)	W
T_{ch}	150	$^\circ\text{C}$
T_{stg}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
$V_{(BR) DSS}$	-60			V	$I_D = -250\mu\text{A}$, $V_{GS} = 0\text{V}$
I_{GSS}			± 500	nA	$V_{GS} = \pm 20\text{V}$
I_{DSS}			-250	μA	$V_{DS} = -60\text{V}$, $V_{GS} = 0\text{V}$
V_{TH}	-2.0		-4.0	V	$V_{DS} = -10\text{V}$, $I_D = -250\mu\text{A}$
R_e (yfs)	1.8	2.8		S	$V_{DS} = -10\text{V}$, $I_D = -4.0\text{A}$
$R_{DS(on)}$		0.2	0.28	Ω	$V_{GS} = -10\text{V}$, $I_D = -4.0\text{A}$
C_{iss}		580		pF	$V_{DS} = -25\text{V}$, $f = 1.0\text{MHz}$, $V_{GS} = 0\text{V}$
C_{oss}		360		pF	$V_{DS} = -25\text{V}$, $f = 1.0\text{MHz}$, $V_{GS} = 0\text{V}$
t_{on}		90		ns	$I_D = -4.0\text{A}$, $V_{DD} = -30\text{V}$, $V_{GS} = -10\text{V}$
t_{off}		45		ns	See Figure 3 on Page 5.

