



JCS13N50FT

绝对最大额定值 ABSOLUTE RATINGS ($T_c=25^\circ\text{C}$)

项目 Parameter	符号 Symbol	数值 Value	单位 Unit
最高漏极—源极直流电压 Drain-Source Voltage	V_{DSS}	500	V
连续漏极电流 Drain Current -Continuous	I_D $T=25^\circ\text{C}$	13.0*	A
	$T=100^\circ\text{C}$	8*	A
最大脉冲漏极电流 (注 1) Drain Current -Pulse (note 1)	I_{DM}	52*	A
最高栅源电压 Gate-Source Voltage	V_{GSS}	± 30	V
单脉冲雪崩能量 (注 2) Single Pulsed Avalanche Energy (note 2)	E_{AS}	845	mJ
雪崩电流 (注 1) Avalanche Current (note 1)	I_{AR}	13.0	A
重复雪崩能量 (注 1) Repetitive Avalanche Energy (note 1)	E_{AR}	5.0	mJ
二极管反向恢复最大电压变化速率 (注 3) Peak Diode Recovery dv/dt (note 3)	dv/dt	4.5	V/ns
耗散功率 Power Dissipation	P_D $T_c=25^\circ\text{C}$ -Derate above 25°C	50	W
		0.4	W/°C
最高结温及存储温度 Operating and Storage Temperature Range	T_J , T_{STG}	-55~+150	°C
引线最高焊接温度 Maximum Lead Temperature for Soldering Purposes	T_L	300	°C

*漏极电流由最高结温限制

*Drain current limited by maximum junction temperature



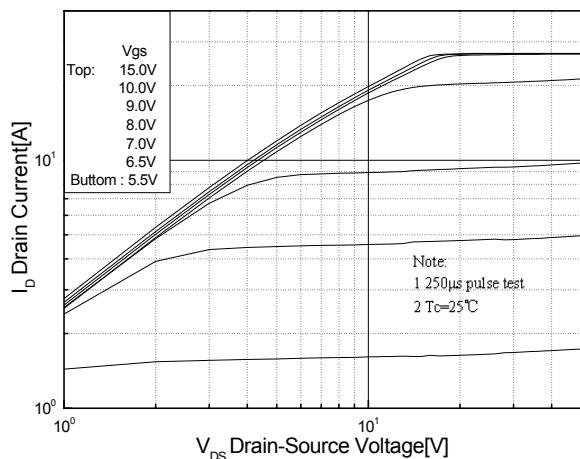
吉林华微电子股份有限公司

JILIN SINO-MICROELECTRONICS CO., LTD.

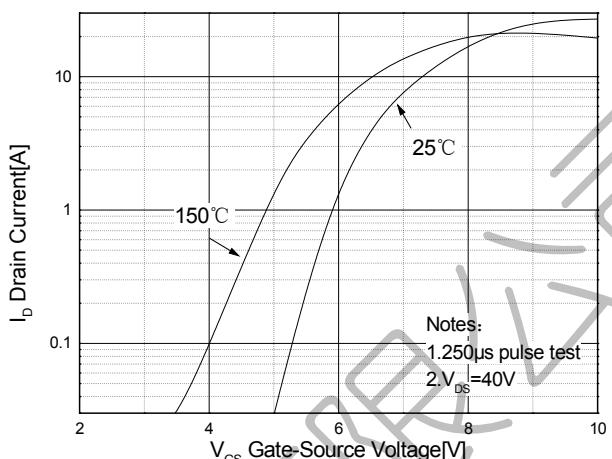


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

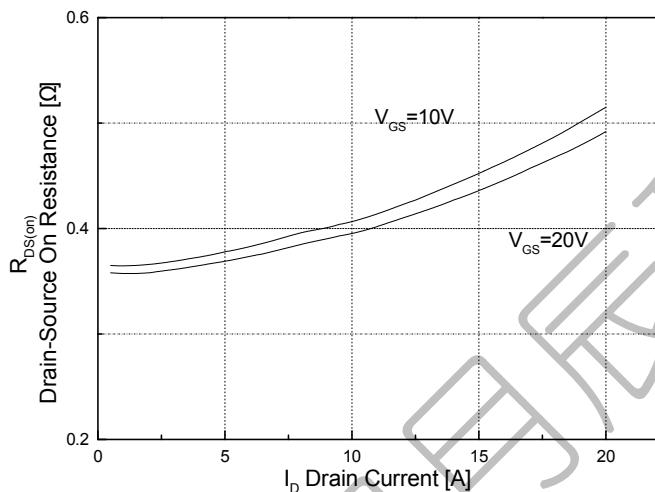
On-Region Characteristics



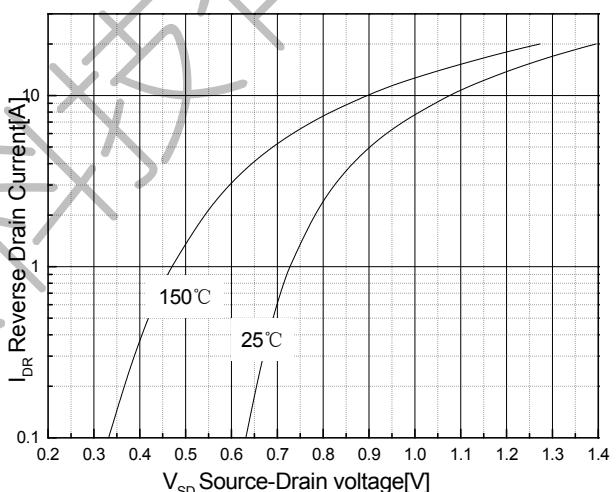
Transfer Characteristics



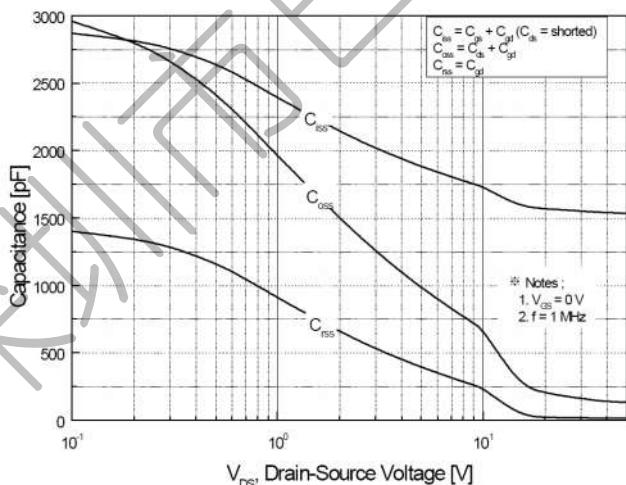
On-Resistance Variation vs Drain Current and Gate Voltage



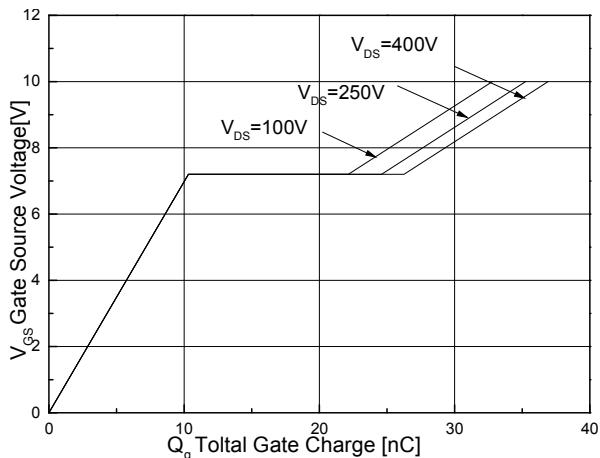
Body Diode Forward Voltage Variation vs. Source Current and Temperature



Capacitance Characteristics



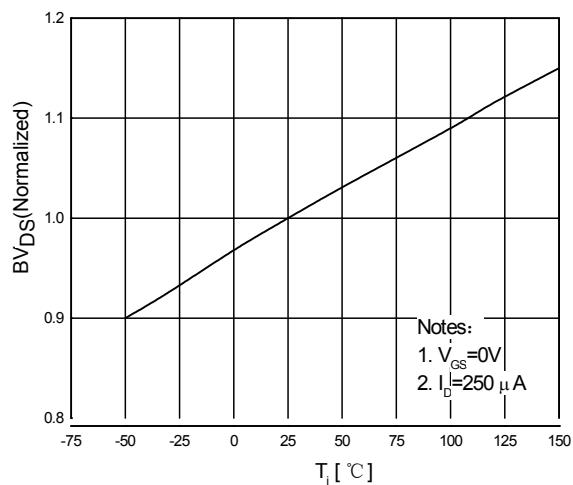
Capacitance Characteristics



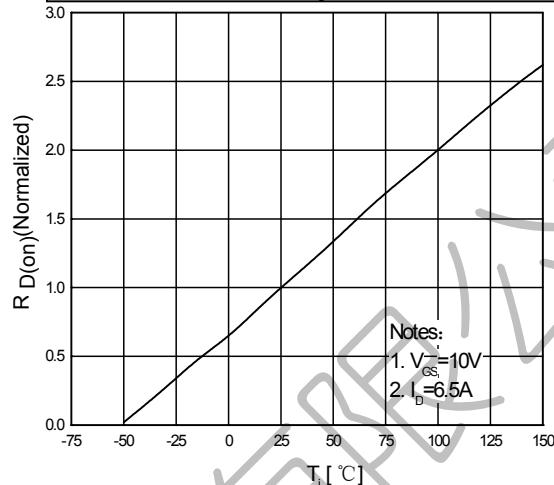


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

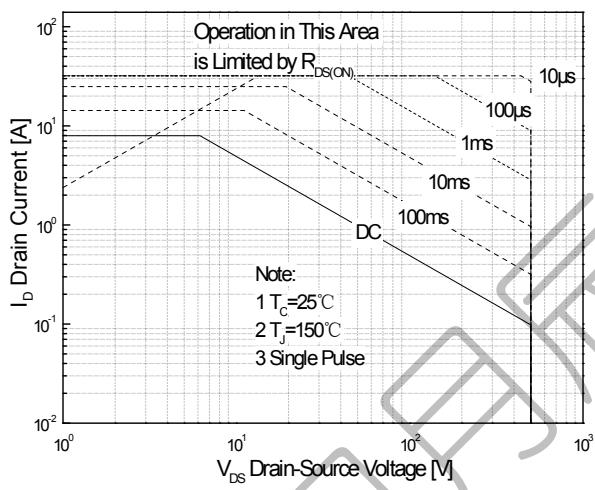
Breakdown Voltage Variation vs. Temperature



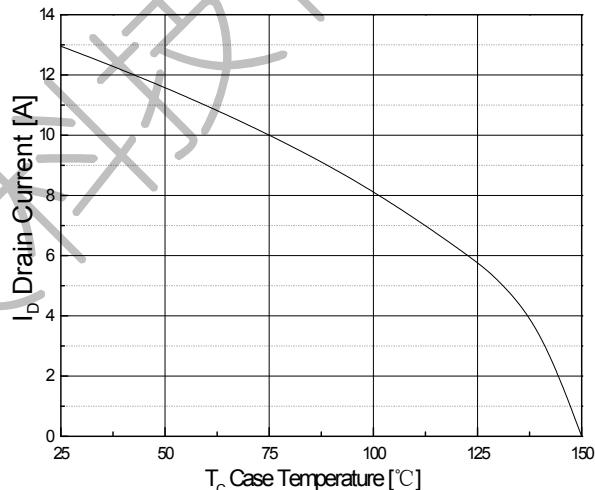
On-Resistance Variation vs. Temperature



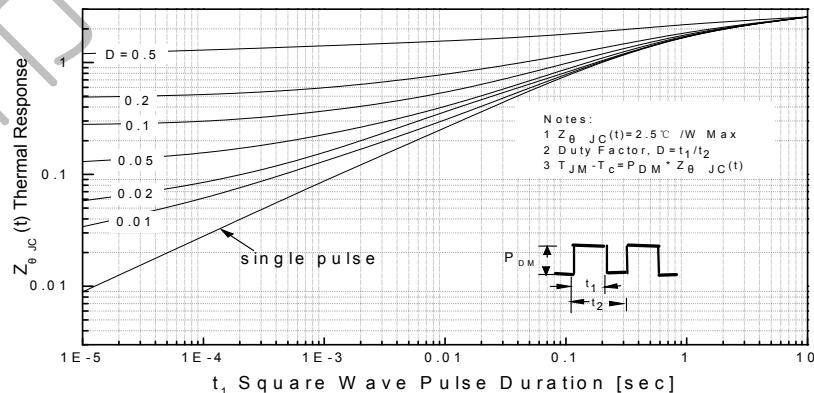
Maximum Safe Operating Area



Maximum Drain Current vs. Case Temperature



Transient Thermal Response Curve



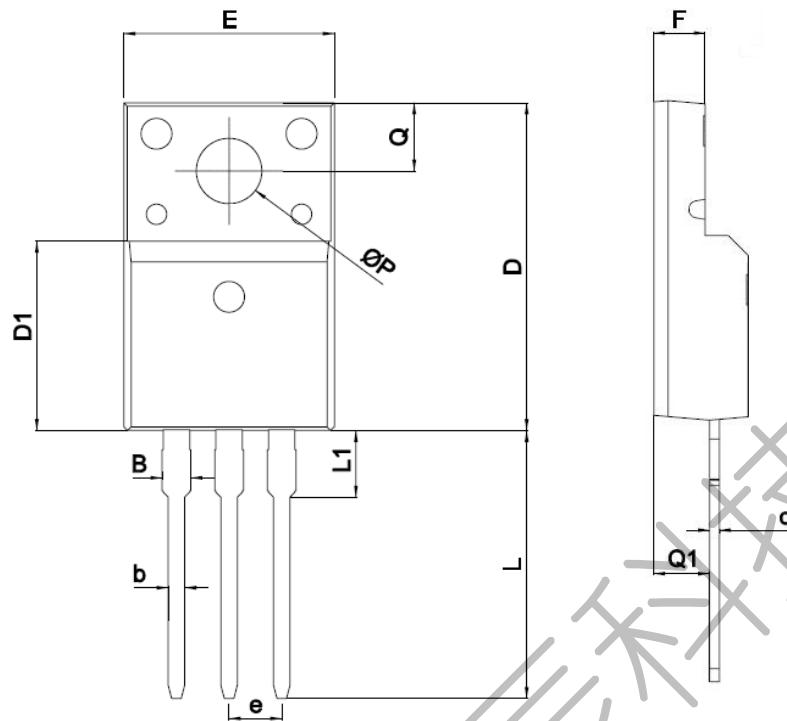


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外形尺寸 PACKAGE MECHANICAL DATA

TO-220MF

单位 Unit : mm



SYMBOL	mm	
	MIN	MAX
A	4.5	4.9
B		1.47
b	0.7	0.9
c	0.45	0.60
D	15.67	16.07
D1	9.04	9.20
e	2.54TYPE	
E	9.96	10.36
F	2.34	2.74
L	12.58	13.38
L1	3.13	3.33
Q	3.2	3.4
Q1	2.56	2.96
ΦP	3.08	3.28



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