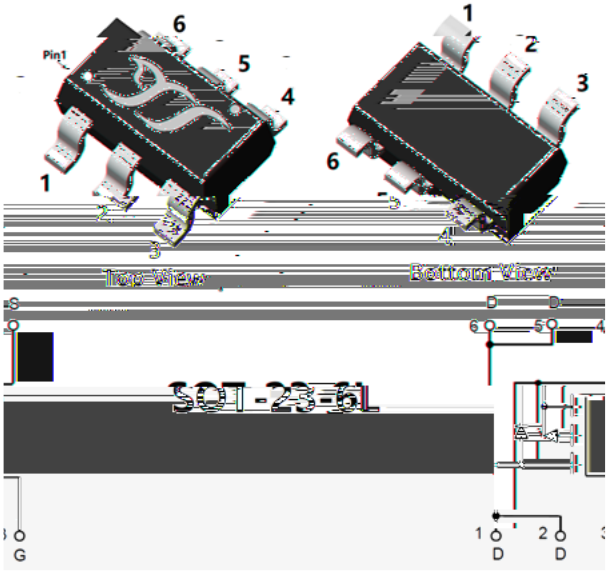
P-Channel Enhancement Mode Field Effect Transistor



Product Summary

V_{DS}	-60V
I_D	-3.2A
$R_{DS(ON)}$(at V_{GS}=-10V)	72m
$R_{DS(ON)}$(at V_{GS}=-4.5V)	90m

General Description

- High density cell design for Low RDS(ON)
- High Speed switching
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free

Applications

- PWM applications
- Power management
- Load switch

Limiting Values

Parameter	Conditions		Symbol	Min	Max	Unit
Drain-source Voltage			V_{DS}	-	-60	V
Gate-source Voltage			V_{GS}	-20	20	
Continuous Drain Current (Note 1,2)	Steady-State	T_A=25℃,V_{GS}=-10V	I_D	-	-3.2	A
		T_A=100℃,V_{GS}=-10V		-	-2	
Pulsed Drain Current	T_A=25 ,t_p≤10μs		I_{DM}	-	-25.6	
Maximum Body-Diode Continuous Current	T_A=25		I_S		-1.6	
Total Power Dissipation (Note 1,2)	Steady-State	T_A=25℃	P_D	-	1.47	W
		T_A=100℃		-	0.58	
Junction and Storage Temperature Range			T_J ,T_{STG}	-55	150	℃

Thermal Resistance

Parameter		Symbol	Typ	Max	Units
Thermal Resistance Junction-to-Ambient (Note 2)	Steady-State	R	-	85	℃/W

Ordering Information (Example)

PREFERED P/N	PACKING CODE	Marking	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YJJ072P06A	F2	072AJ	3000	30000	120000	7 reel

Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units

Typical Electrical and Thermal Characteristics Diagrams

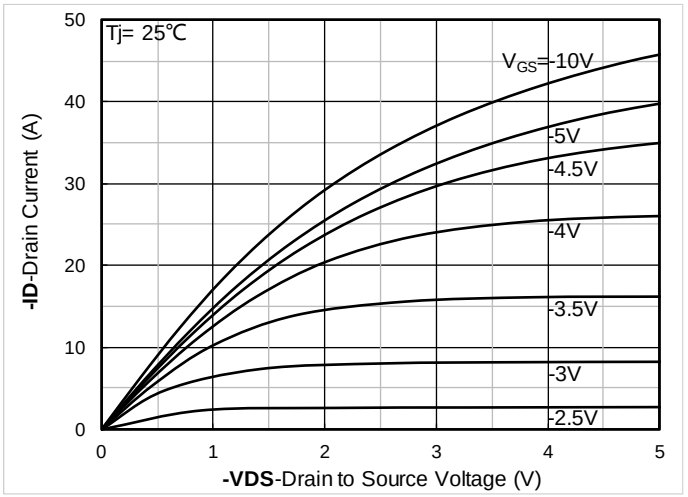


Figure 1. Output Characteristics; typical values

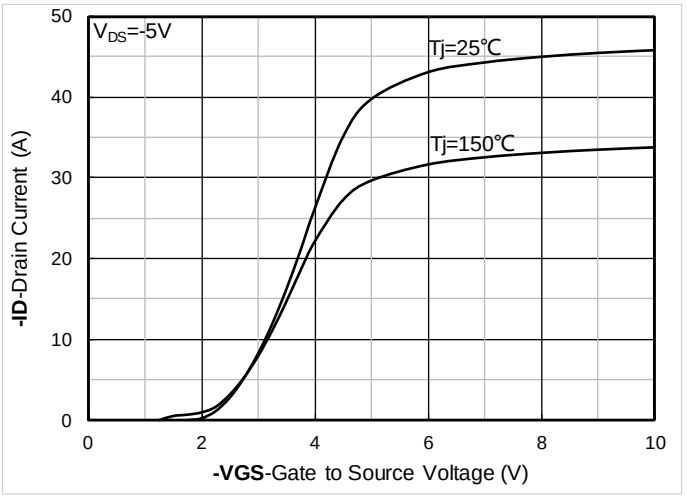


Figure 2. Transfer Characteristics; typical values

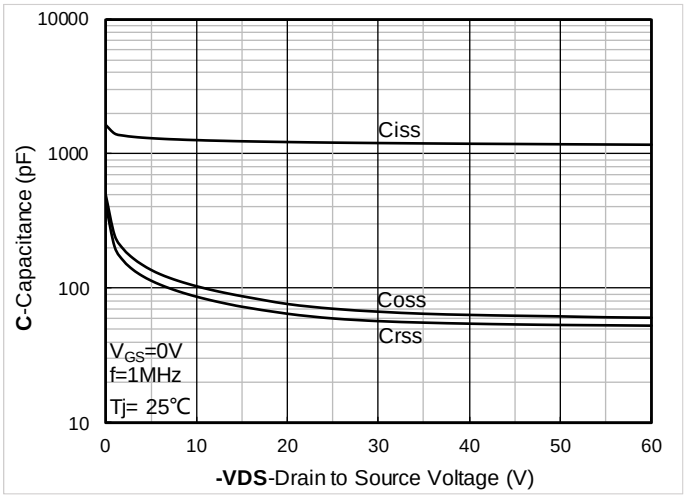


Figure 3. Capacitance Characteristics; typical values

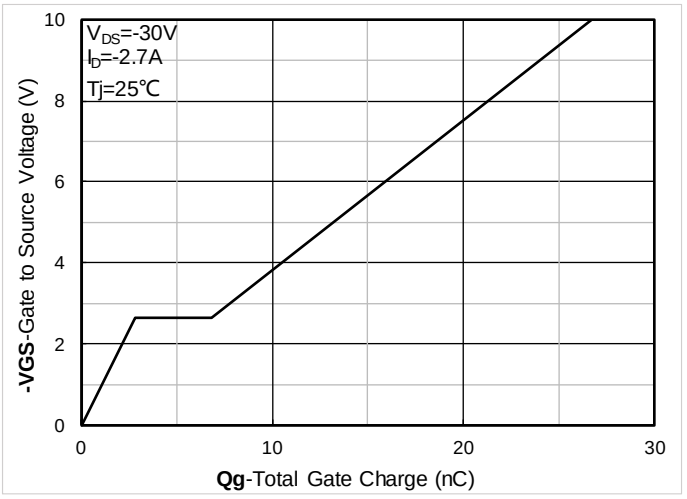


Figure 4. Gate Charge; typical values

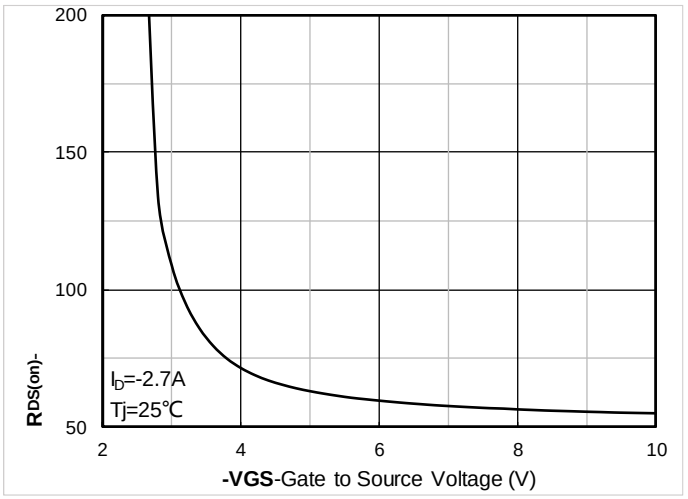


Figure 5. On-Resistance vs. Gate to Source Voltage; typical values

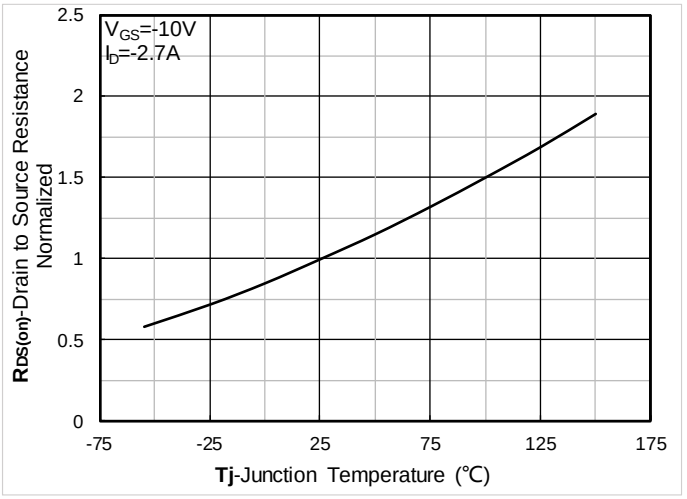


Figure 6. Normalized On-Resistance

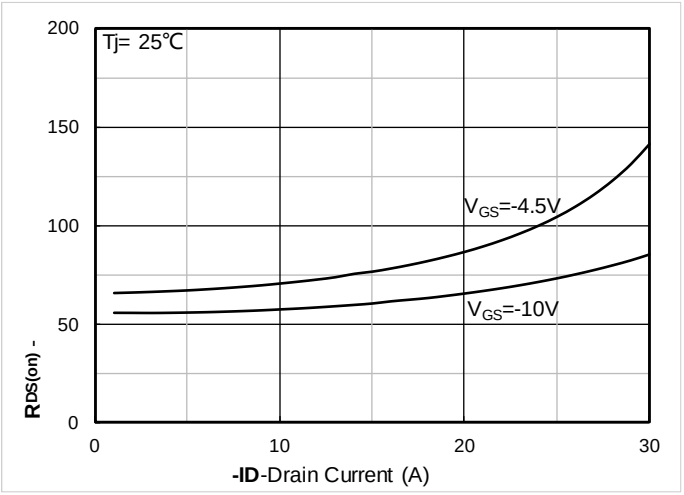


Figure 7. $R_{DS(on)}$ vs. Drain Current; typical values

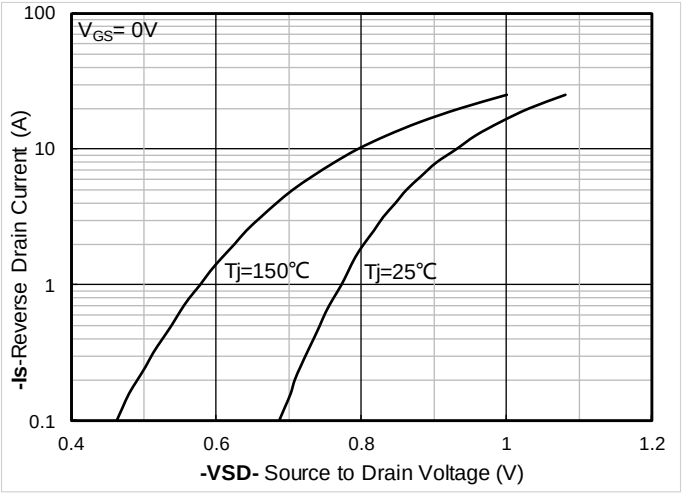


Figure 8. Forward characteristics of reverse diode; typical values

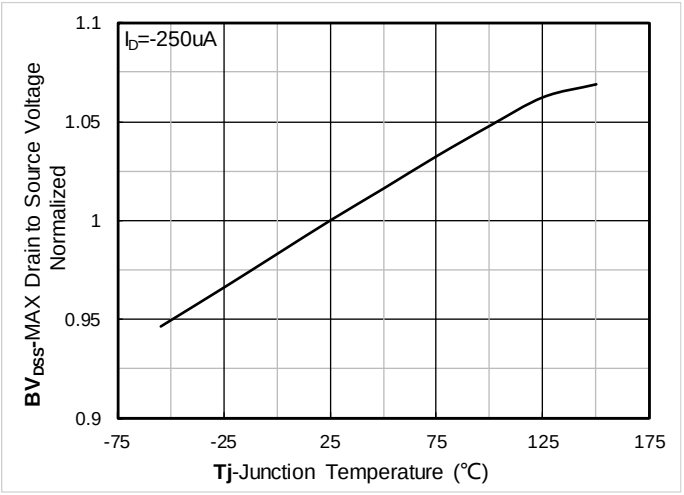


Figure 9. Normalized breakdown voltage

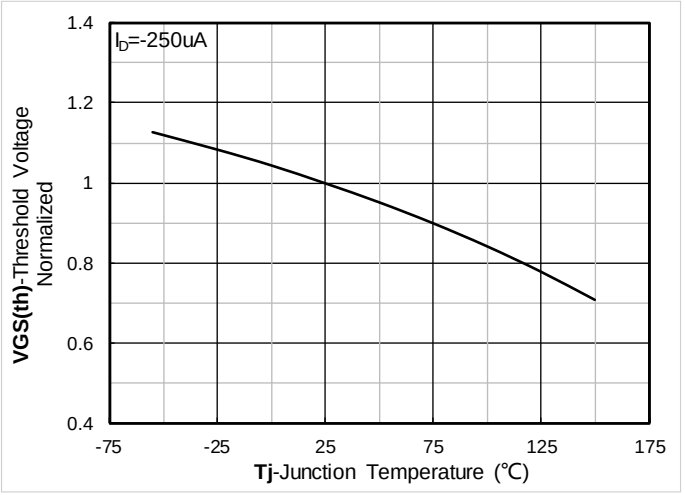


Figure 10. Normalized Threshold voltage

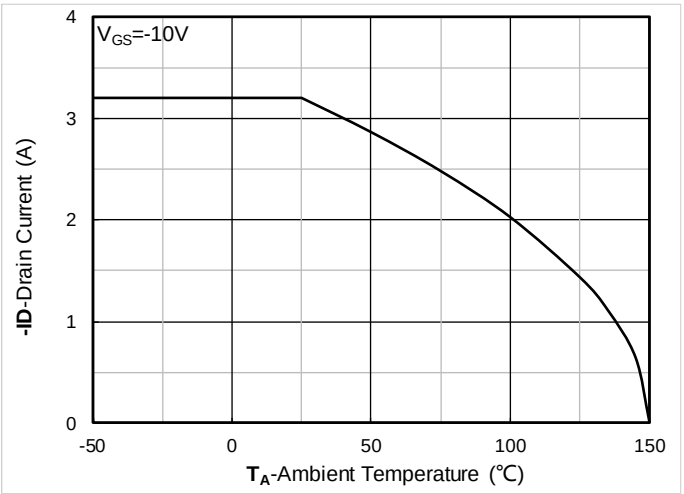
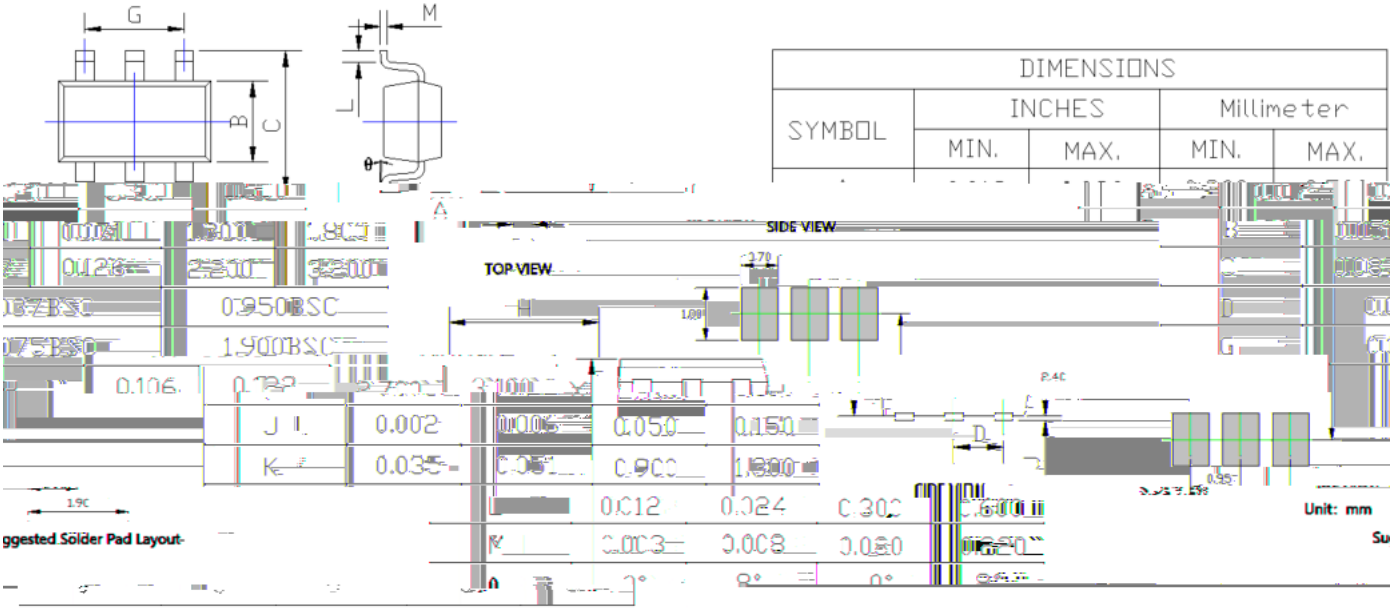


Figure 11. Current dissipation

Figure 12. Power dissipation

SOT-23-6L-B Package Information



DIMENSIONS				
SYMBOL	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.

Note:
1.Controlling dimension:in millimeters.
2.General tolerance:±0.05mm.
3.The pad layout is for reference purposes only.

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