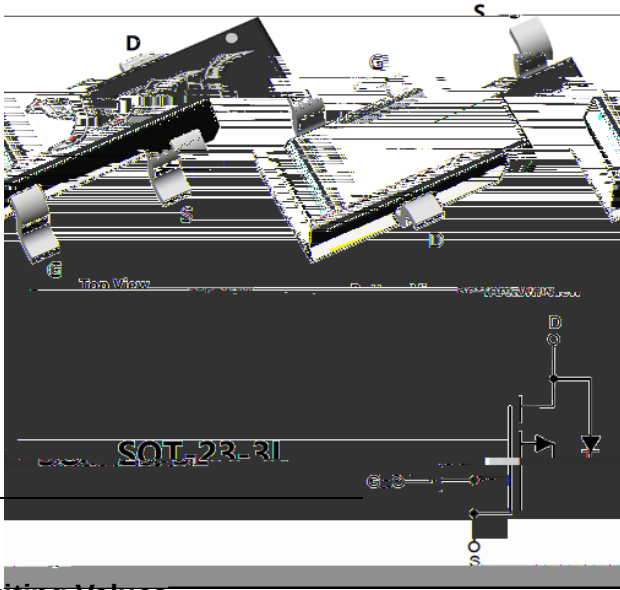




P-Channel Enhancement Mode Field Effect Transistor



Product Summary

• V_{DS}	-60V
• I_D	-2.8A
• $R_{DS(ON)}$ (at $V_{GS}=-10V$)	72m Ω
• $R_{DS(ON)}$ (at $V_{GS}=-4.5V$)	90m Ω

General Description

- High density cell design for Low $R_{DS(ON)}$
- High Speed switching
- Moisture Sensitivity Level 1
- 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	T _J ≥25°C; T _J ≤150°C		V _{DS}	-	-60	V
Gate-source Voltage	T _J ≤150°C; DC		V _{GS}	-20	20	
Continuous Drain Current (Note 1,2)	Steady-State	T _A =25℃, V _{GS} =-10V	I _D	-	-2.8	A
		T _A =100℃, V _{GS} =-10V		-	-1.8	
Pulsed Drain Current	T _A =25℃, t ≤ 10μs		I _{DM}	-	-22	
Maximum Body-Diode Continuous Current	T _A =25℃		I _S		-1.2	
		T _A =25℃	P _D	-	1.06	W
Total Power Dissipation (Note 1,2)	Steady-State	T _A =100℃		-	0.42	
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	$R_{\theta JA}$	-	117	$^{\circ}\text{C}/\text{W}$

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	Marking	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YJL072P06AL		072AL	3000	30000	120000	



Typical Electrical and Thermal Characteristics Diagrams

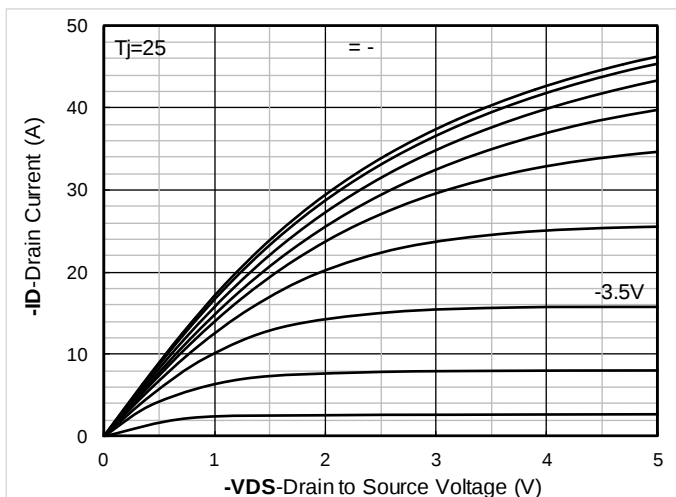


Figure 1. Output Characteristics; typical values

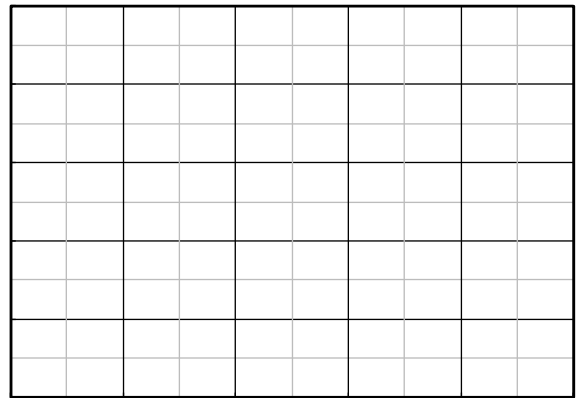


Figure 2. Transfer Characteristics; typical values

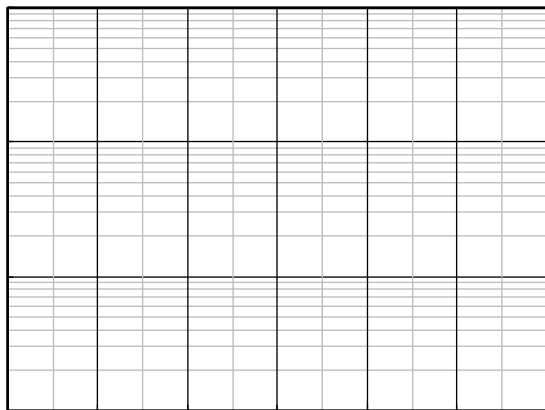


Figure 3. Capacitance Characteristics; typical values

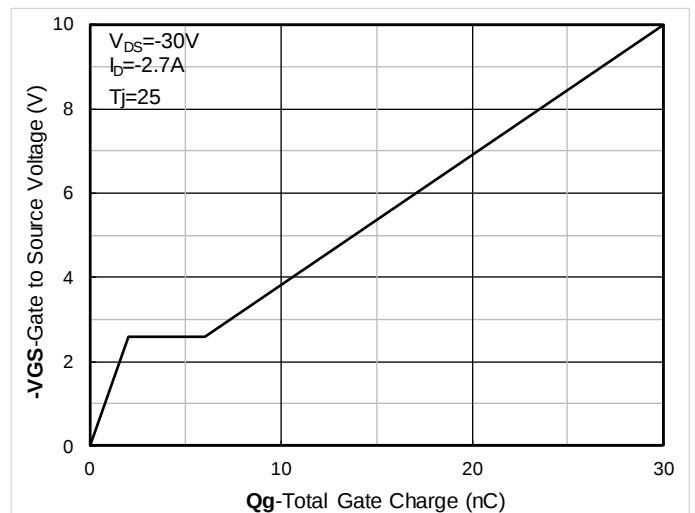


Figure 4. Gate Charge; typical values

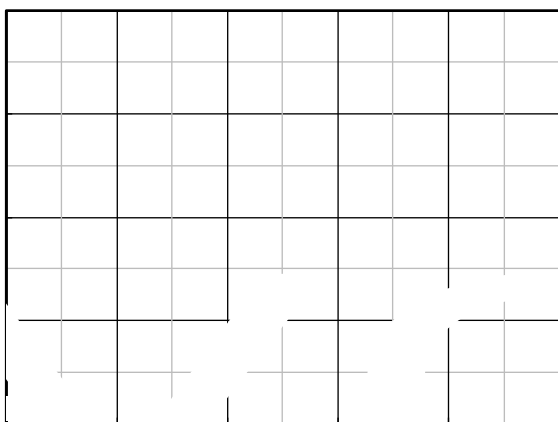
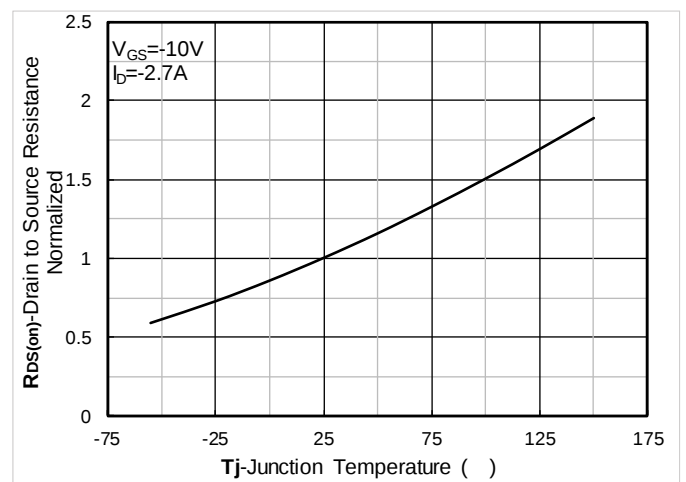


Figure 5. On-



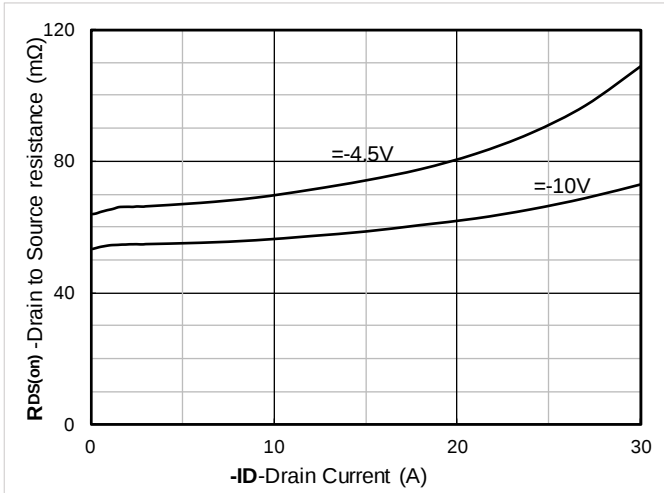


Figure 7. RDS(on) vs. Drain Current; typical values

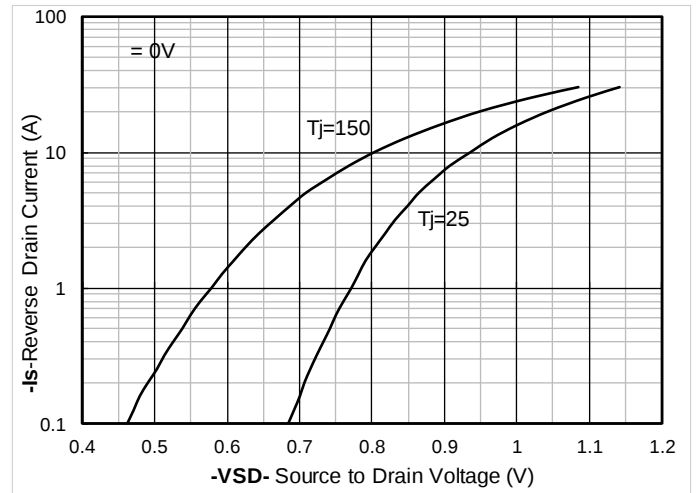


Figure 8. Forward characteristics of reverse diode; typical values

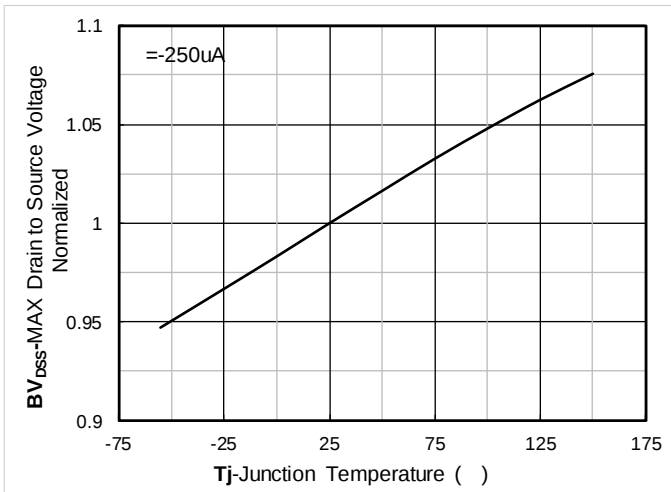


Figure 9. Normalized breakdown voltage

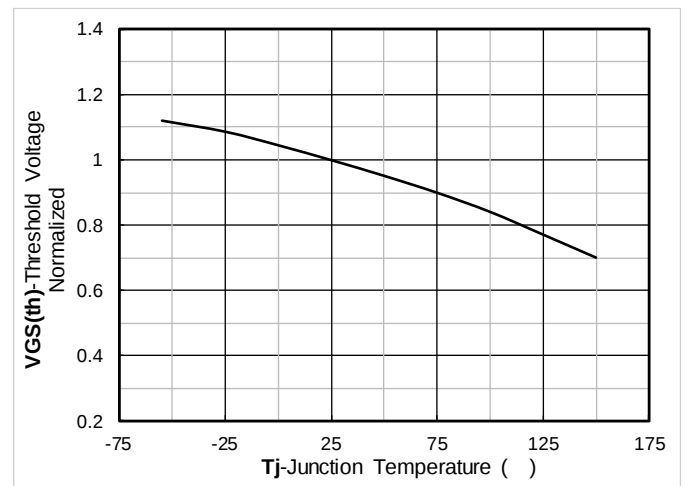


Figure 10. Normalized



■ SOT-23-3L Package Information

UNIT mm



Marking

