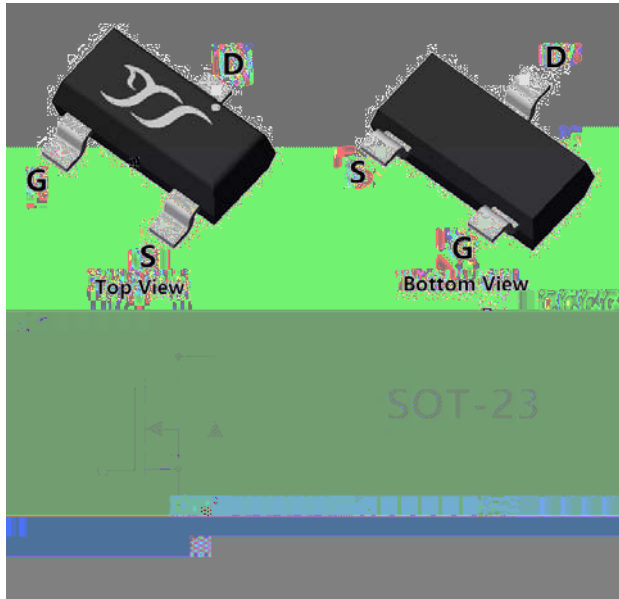




N-Channel Enhancement Mode Field Effect Transistor



Product Summary

• V_{DS}	60V
• I_D	3A
• $R_{DS(ON)}$ (at $V_{GS}=10V$)	80m Ω
• $R_{DS(ON)}$ (at $V_{GS}=4.5V$)	95m Ω

General Description

- Trench Power LV MOSFET technology
- High Speed switching
- Halogen Free
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free

Applications

- Power switching application
- Uninterruptible power supply
- PWM application

■ Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter		Symb		
		V_{DS}	60	V
Gate-source Voltage		V_{GS}	±20	V
Drain Current	$T_A=25^\circ\text{C}$	I_D	3	A
	$T_A=100^\circ\text{C}$		1.9	
Pulsed Drain Current ^A		I_{DM}	20	A
Total Power Dissipation ^B	$T_A=25^\circ\text{C}$	P_D	1.2	W
	$T_A=100^\circ\text{C}$		0.45	
Junction and Storage Temperature Range		T_J, T_{STG}	-55 +150	

■ Thermal resistance

Parameter		Symbol	Typ	Max	Units
Thermal Resistance Junction-to-Ambient ^C	Steady-State	$R_{\theta JA}$	85	105	/W

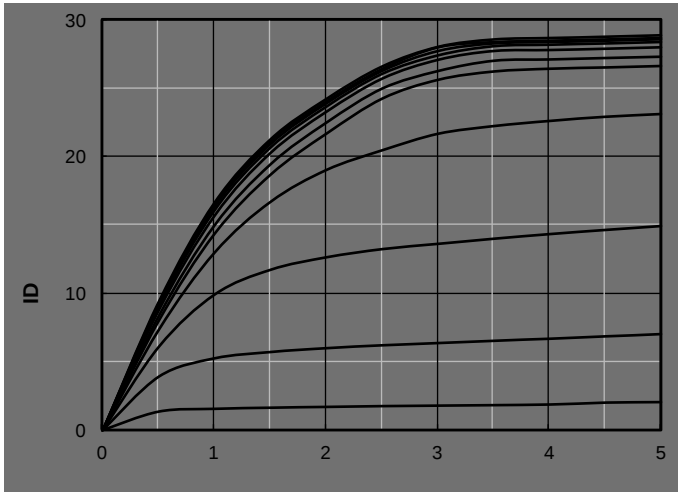
■ Ordering Information (Example)

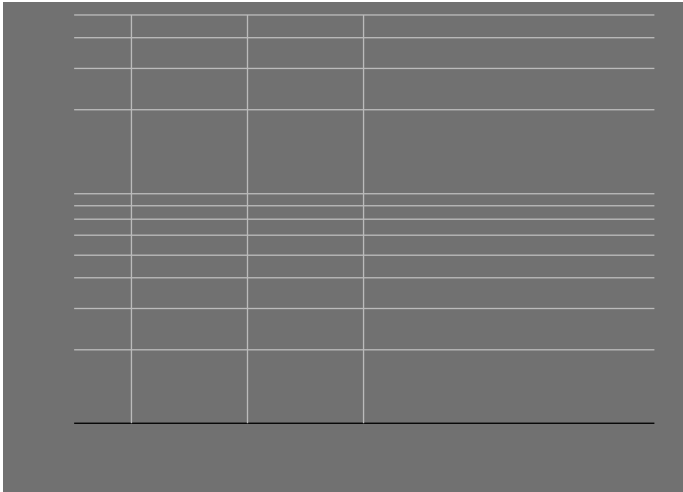
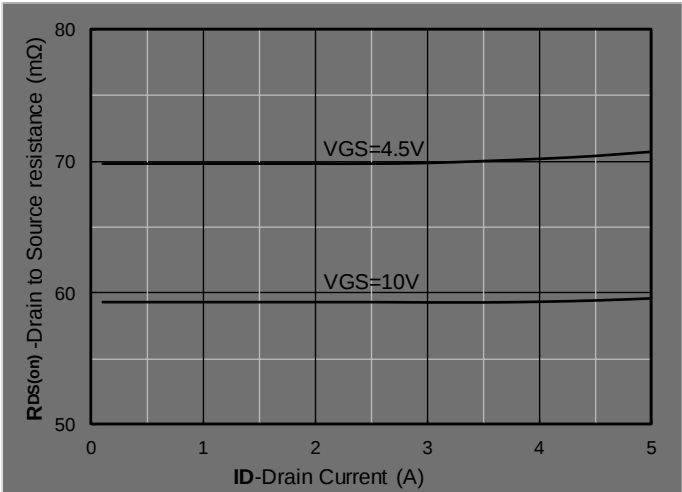
PREFERRED P/N	PACKING CODE	Marking	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YJL03N06C	F2	03N06C.	3000	30000	120000	7" reel

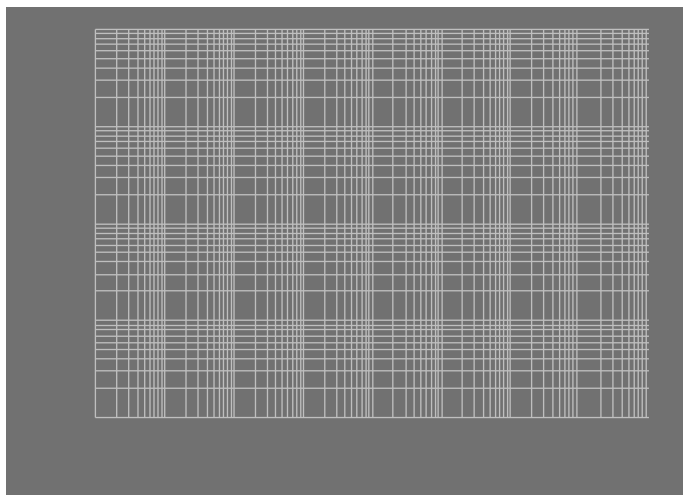
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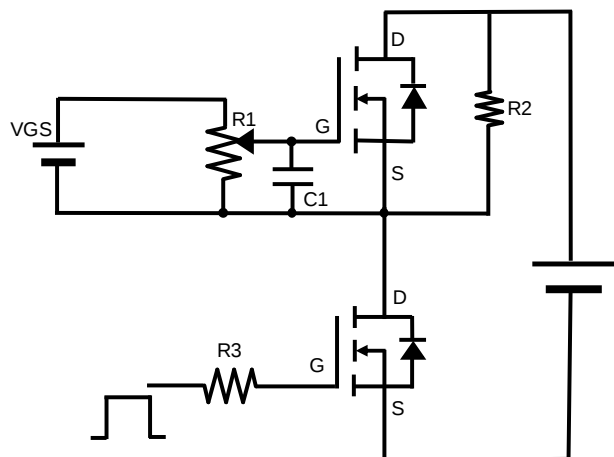


■ Typical Electrical and Thermal Characteristics Diagrams







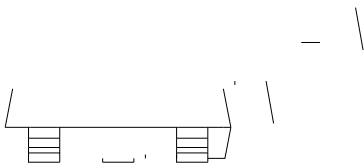




■ SOT-23 Package information

TOP VIEW

SIDE VIEW



UNIT mm

SUGGESTED SOLDER PAD LAYOUT



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