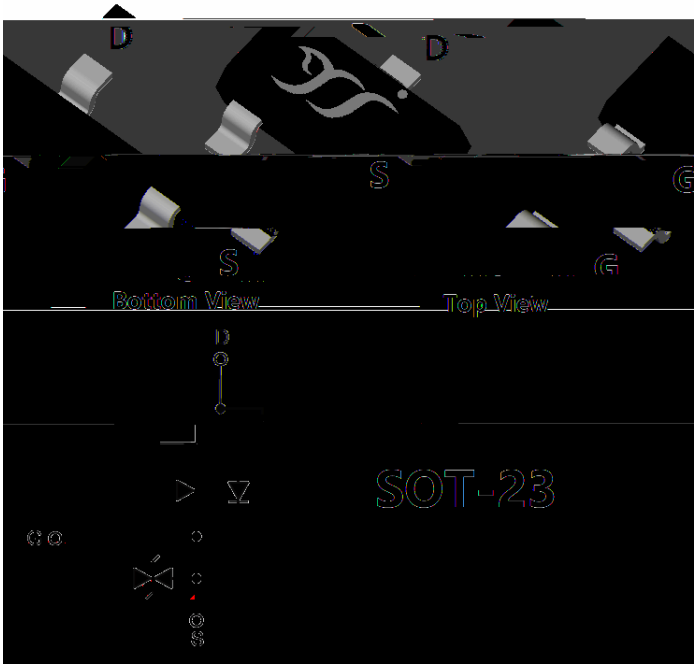
P-Channel Enhancement Mode F U



- $R_{DS(ON)}$(at V_{GS} = - 4 . 5 V) 850 mohm
- $R_{DS(ON)}$(at V_{GS}=-2.5V) 1200 mohm
- $R_{DS(ON)}$(at V_{GS}=-1.8V) 2000 mohm
- ESD Protected Up to 2.0KV (HBM)

General Description

- Trench Power LV MOSFET technology
- High Density Cell Design for Low $R_{DS(ON)}$
- High Speed switching

Applications

- Interfacing, Logic switch
- Load switch
- Power management

■ **Absolute Maximum Ratings** (T_A=25 unless otherwise noted)

Parameter		Symbol	Maximum	Unit
Drain-source Voltage		V_{DS}	-20	V
Gate-source Voltage		V_{GS}	± 12	V
Drain Current	T_A=25 Steady State	I_D	-0.5	A
	T_A=70 Steady State		-0.4	
Pulsed Drain Current [A]		I_{DM}	-2.6	A
Total Power Dissipation @ T_A=25 Steady State		P_D	0.35	W
Thermal Resistance Junction-to-Ambient @ Steady State [B]		$R_{\theta JA}$	357	/ W
Junction and Storage Temperature Range		T_J ,T_{STG}	-55 +150	

					QUANTITY	DELIVERY MODE
YJL3139KA	F2	39KA.	3000	30000	120000	7“ reel

■ Typical Performance Characteristics

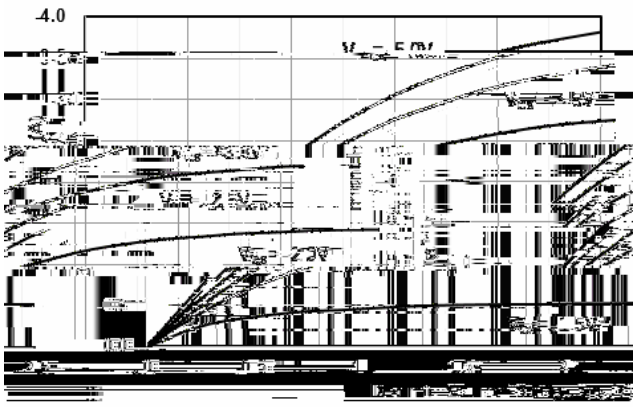


Figure1. Output Characteristics

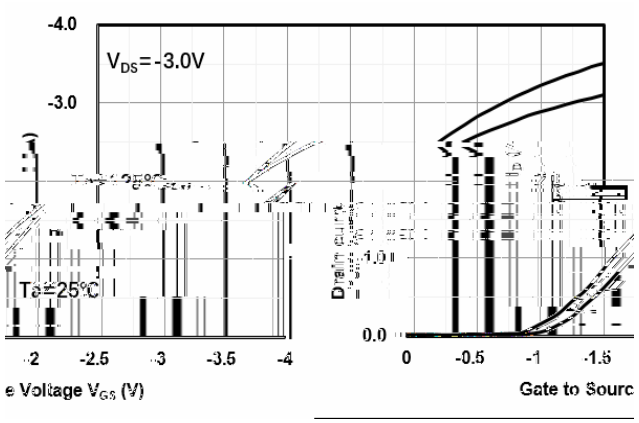


Figure2. Transfer Characteristics

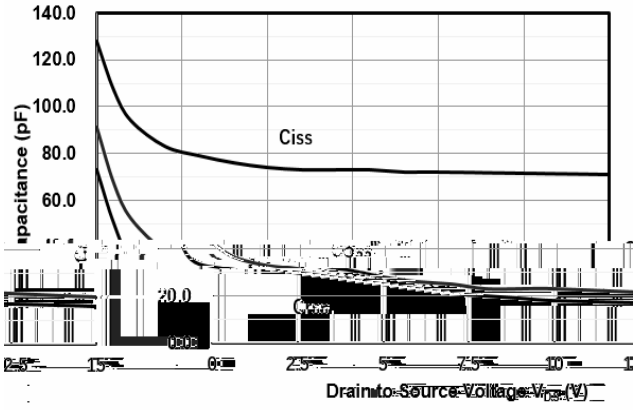


Figure3. Capacitance Characteristics

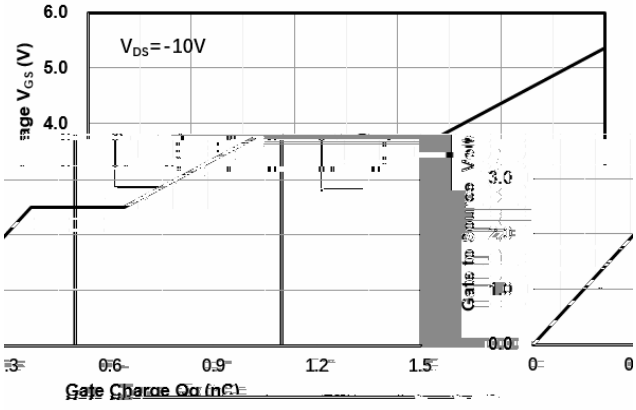


Figure4. Gate Charge

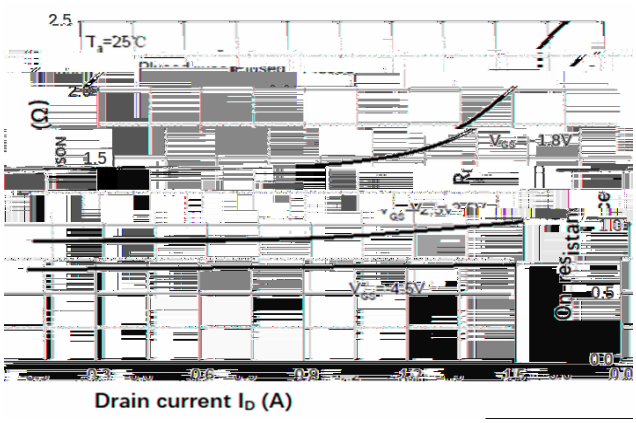


Figure5. Drain-Source on Resistance

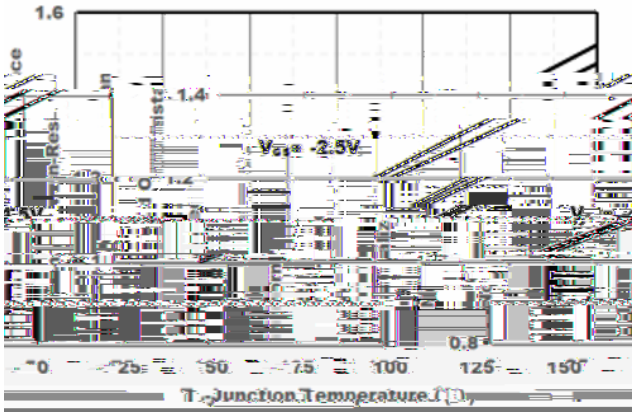


Figure6. Drain-Source on Resistance

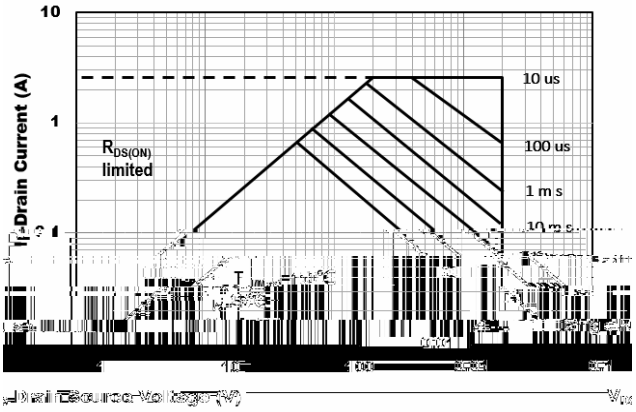


Figure7. Safe Operation Area

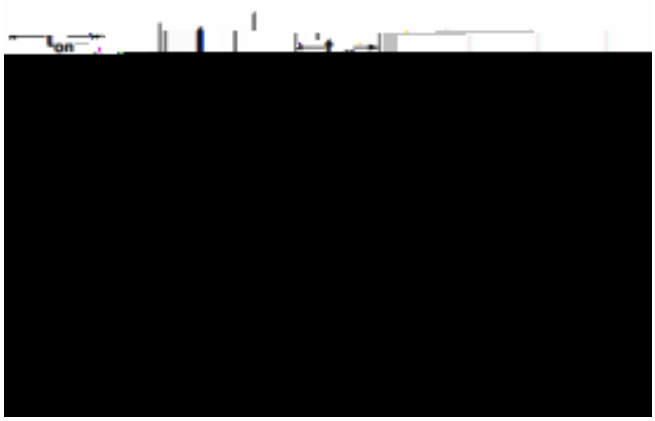
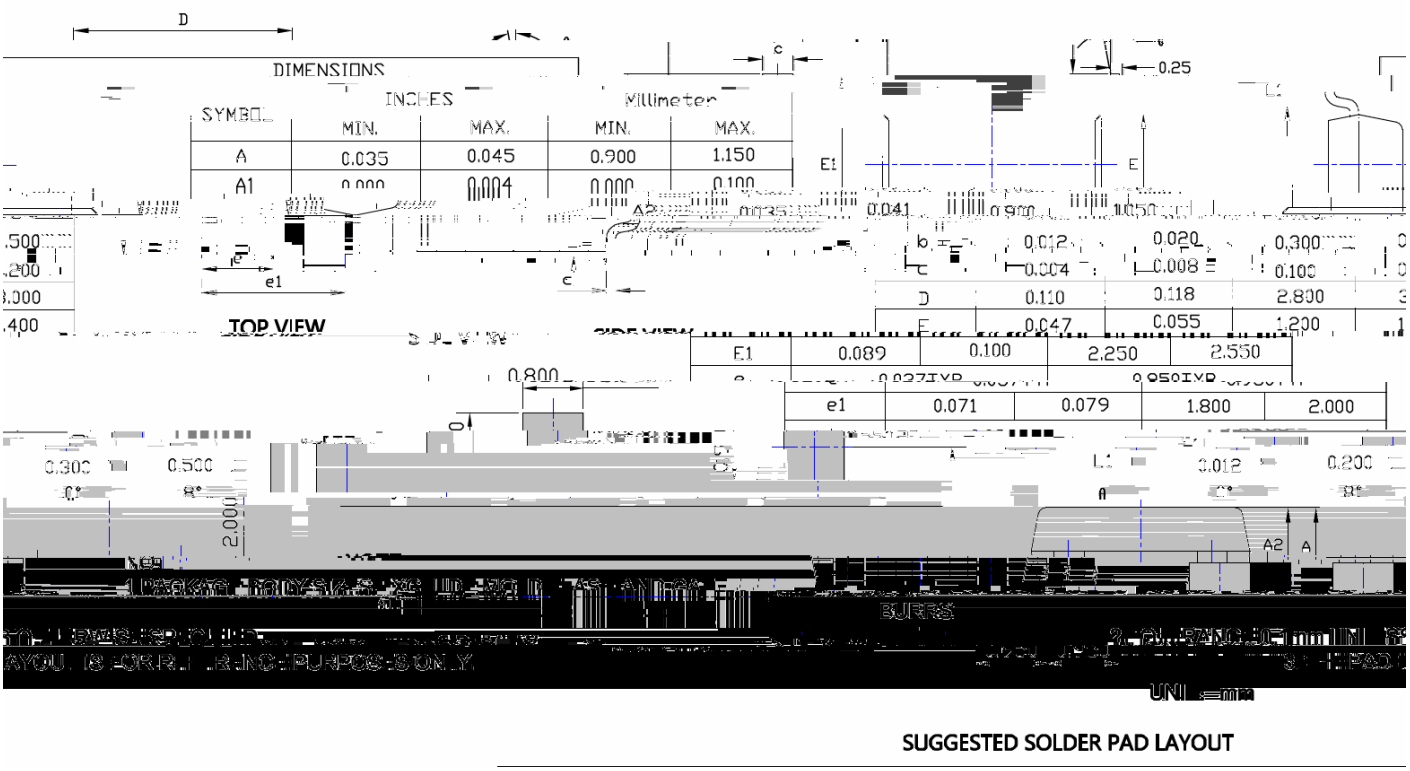


Figure8. Switching wave

■ SOT-23 Package information



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