



P-Channel Enhancement Mode F



- $R_{DS(ON)}$ (at $V_{GS} = -4.5V$) 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 ($T_A = 25^\circ C$ unless otherwise noted)

Parameter		Symbol	Maximum	Unit
Drain-source Voltage		V_{DS}	-20	V
Gate-source Voltage		V_{GS}	± 12	V
Drain Current	$T_A = 25^\circ C$ Steady State	I_D	-0.5	A
	$T_A = 70^\circ C$ Steady State		-0.4	
Pulsed Drain Current ^A		I_{DM}	-2.6	A
Total Power Dissipation @ $T_A = 25^\circ C$ 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

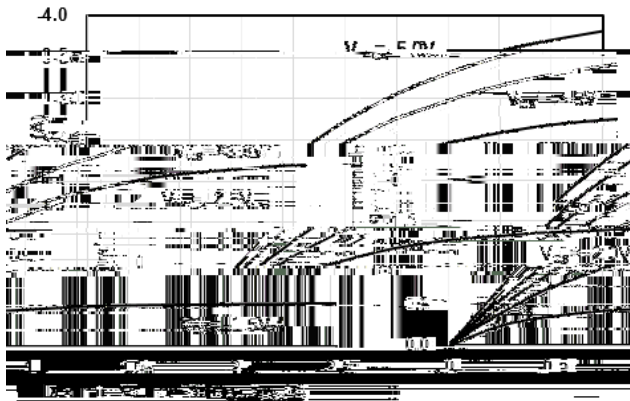


Figure1. Output Characteristics

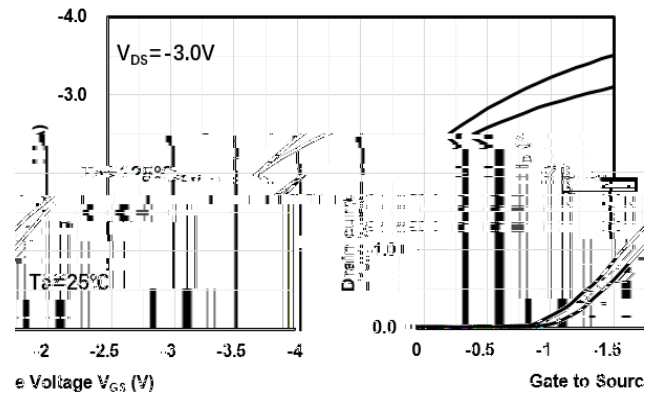


Figure2. Transfer Characteristics

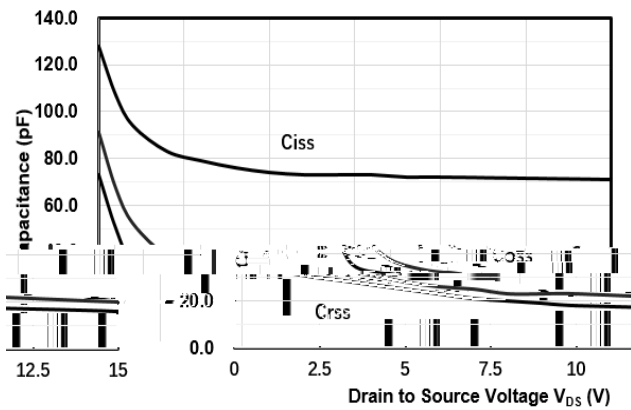


Figure3. Capacitance Characteristics

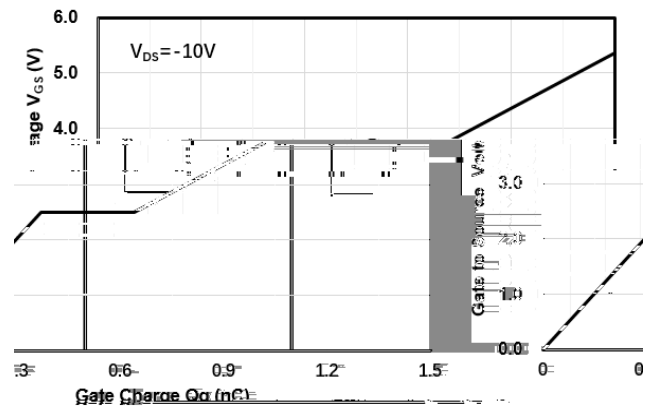


Figure4. Gate Charge

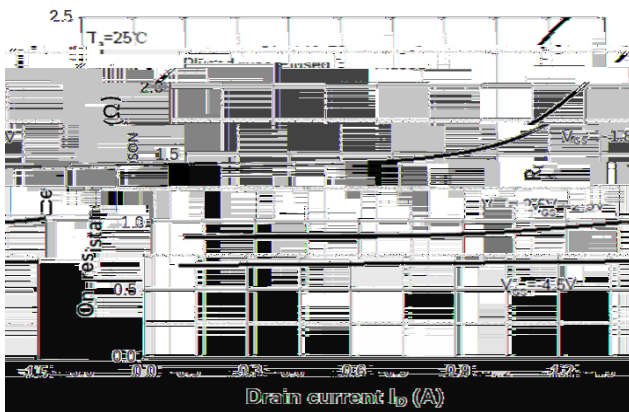


Figure5. Drain-Source on Resistance

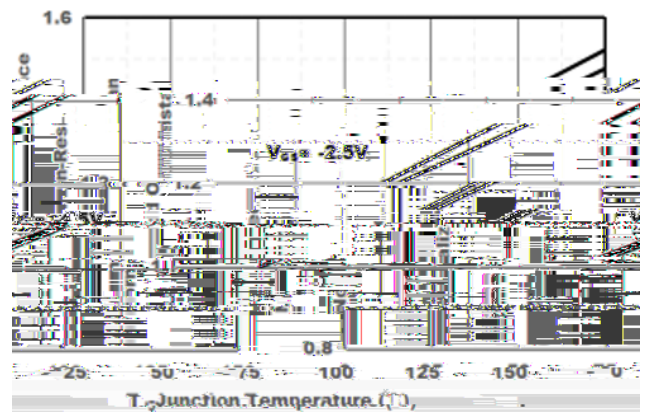


Figure6. Drain-Source on Resistance

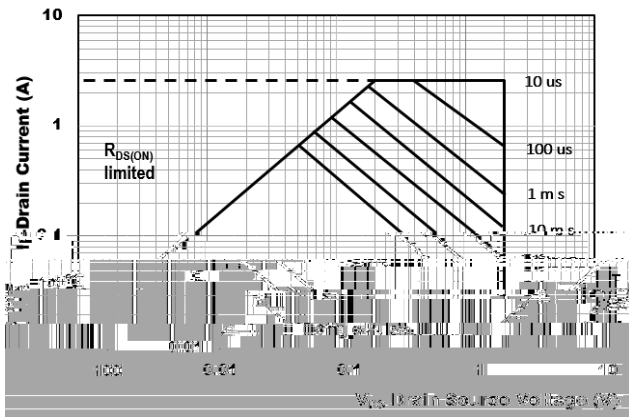


Figure7. Safe Operation Area

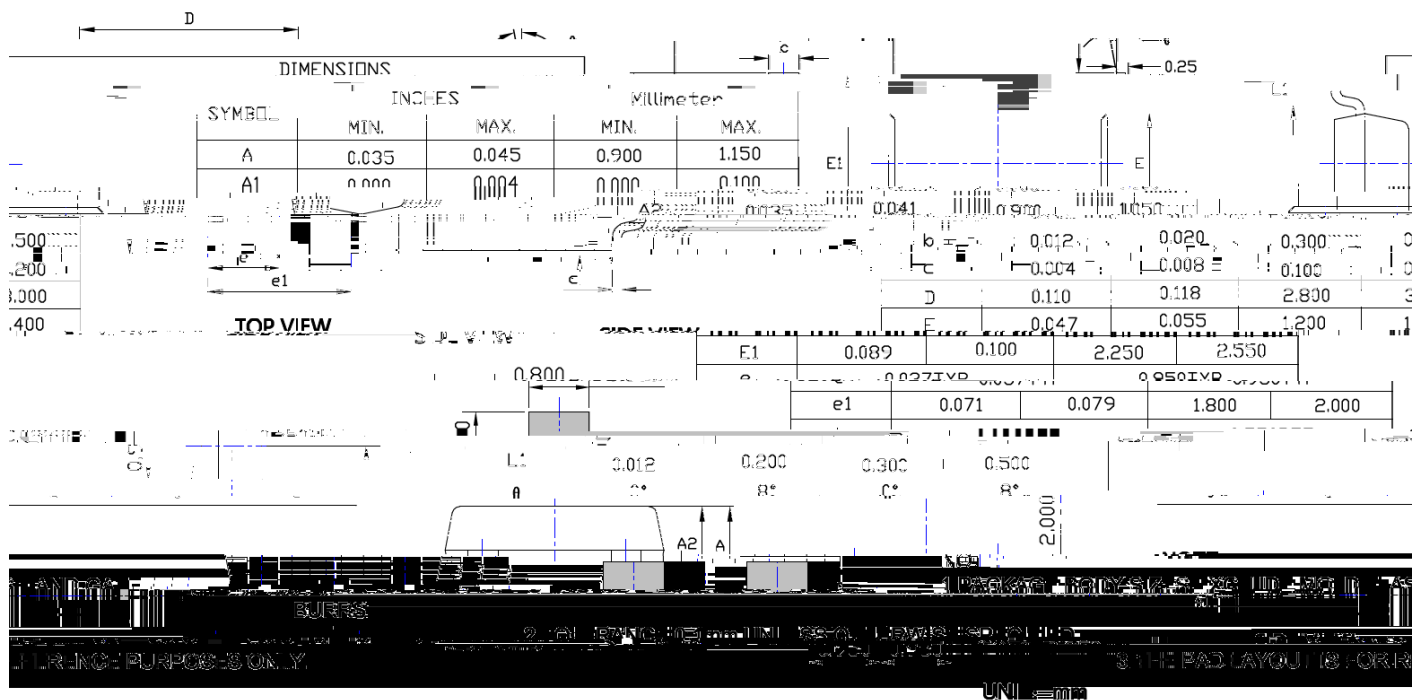


Figure8. Switching wave



YJL3139KA

■ SOT-23 Package information





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