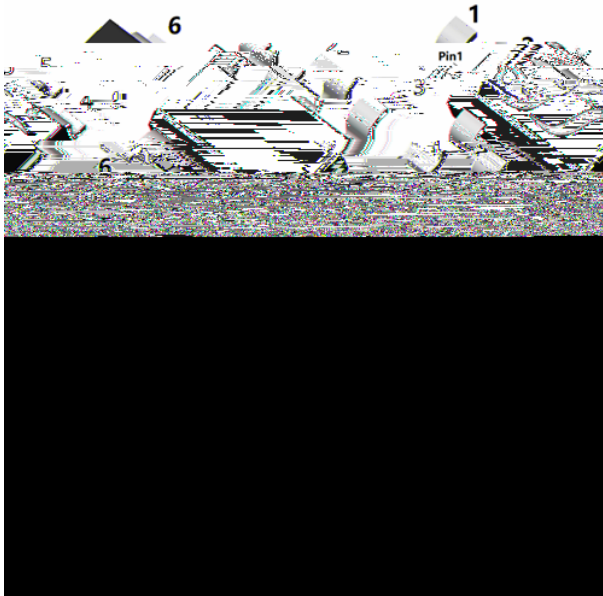




$r_{DS(ON)}$ (at $V_{GS}=10V$)	590mΩ
• $R_{DS(ON)}$ (at $V_{GS}=4.5V$)	600mΩ

General Description

- High density cell design for Low $R_{DS(ON)}$
- High Speed switching
- High power and current handling capability
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free

Applications

- PWM applications
- DC-DC convertor

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

Parameter		Symbol	Limit	Unit
Drain-source Voltage		V_{DS}	200	V
Gate-source Voltage		V_{GS}	± 20	V
Drain Current	$T_A=25$	I_D	1	A
	$T_A=100$		0.6	
Pulsed Drain Current ^A		I_{DM}	8	A
Total Power Dissipation ^B	$T_A=25$	P_D	1.35	W
	$T_A=100$		0.55	
Junction and Storage Temperature Range		T_J, T_C	$-55^\circ\text{C} \sim 150^\circ\text{C}$	

■ Thermal resistance

Parameter		Symbol	Typ	Max	Units
Thermal Resistance Junction-to-Ambient ^C	Steady-State	$R_{\theta JA}$	70	90	/W

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	Marking	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YJJ2612AJ	F2	2612AJ	3000	30000	120000	7" reel

YJJ2612AJ



■ Typical Electrical and Thermal Characteristics Diagrams

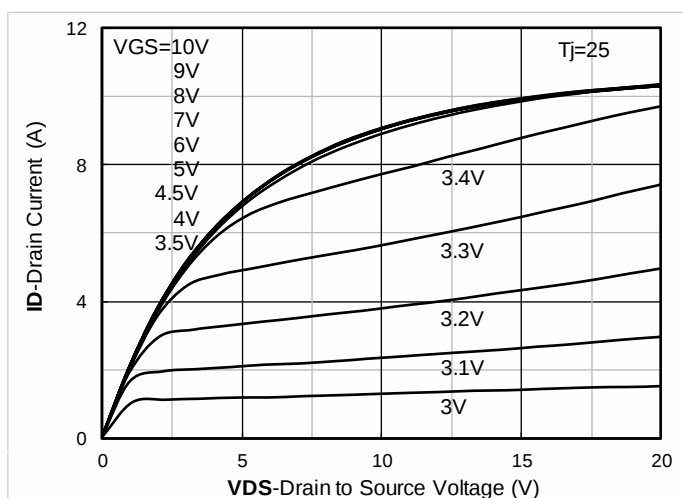


Figure 1. Output Characteristics

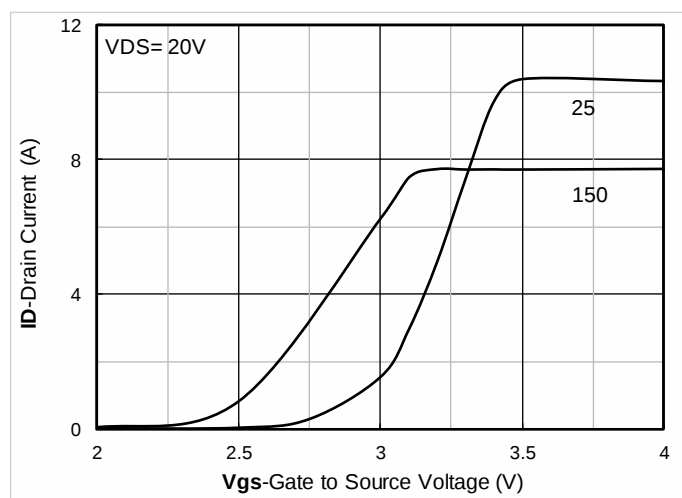
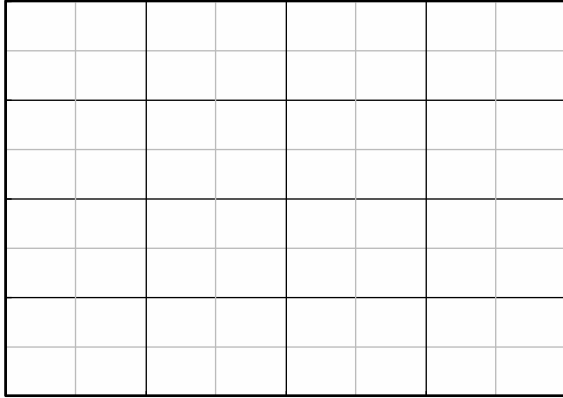


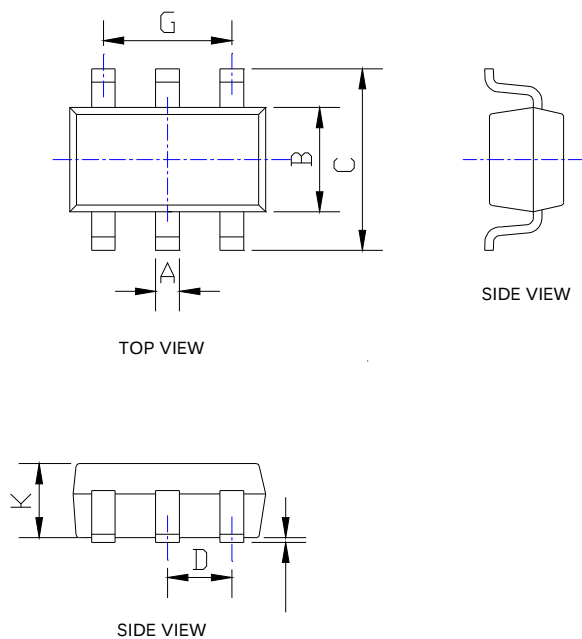
Figure 2. Transfer Characteristics



YJJ2612AJ



■ SOT-23-6L Package Information



SYMBOL	DIMENSIONS			
	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.012	0.020	0.300	0.500
B	0.059	0.067	1.500	1.700
C	0.104	0.116	2.650	2.950
D				
G				
H	0.111	0.119	2.820	
J				
K	0.041	0.045	1.050	1.150
L	0.012	0.024	0.300	0.600
M	0.004	0.008	0.100	0.200
θ	0°	8°	0°	8°

