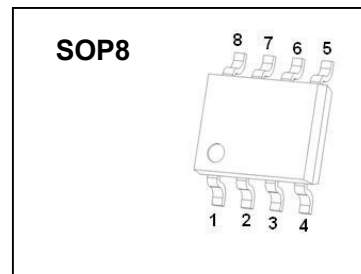


SOP8 Plastic-Encapsulate MOSFETS

CJQ6601 P-channel and N-channel Complementary MOSFETS

DESCRIPTIONS

The Device uses advanced trench technology to provide excellent $R_{DS(ON)}$ and low gate charge. The complementary MOSFETS form a high-speed power inverter, suitable for a multitude of applications.



FEATURES

- Including a N-ch CJ3400 MOS and a P-ch CJ3401 MOS (independently) in a package
- Surface mount package
- Low $R_{DS(on)}$

APPLICATIONS

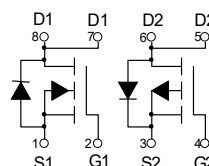
- Suitable for a multitude of applications.
- High-speed power inverter

MARKING:



Q6601= Device code
 Solid dot=Pin1 indicator
 Solid dot = Green molding compound device,
 if none, the normal device
 YY=Date Code

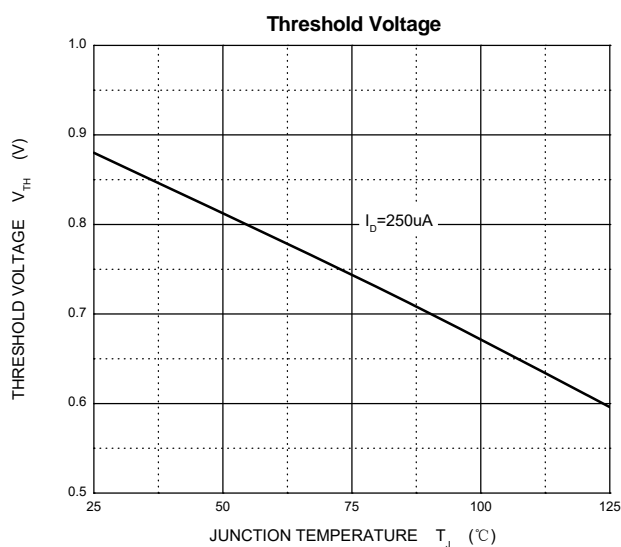
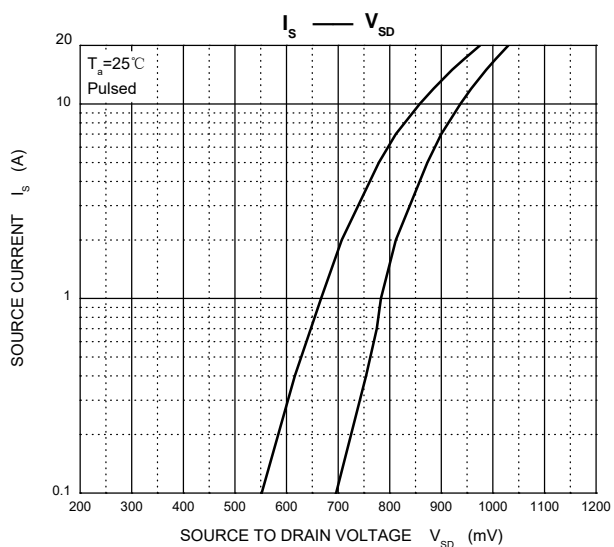
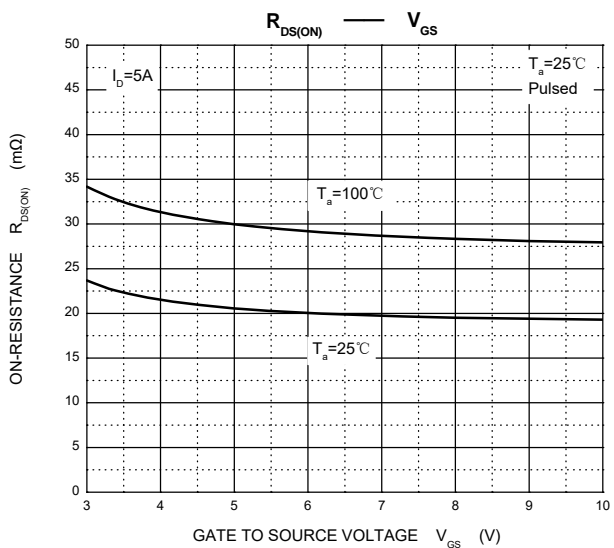
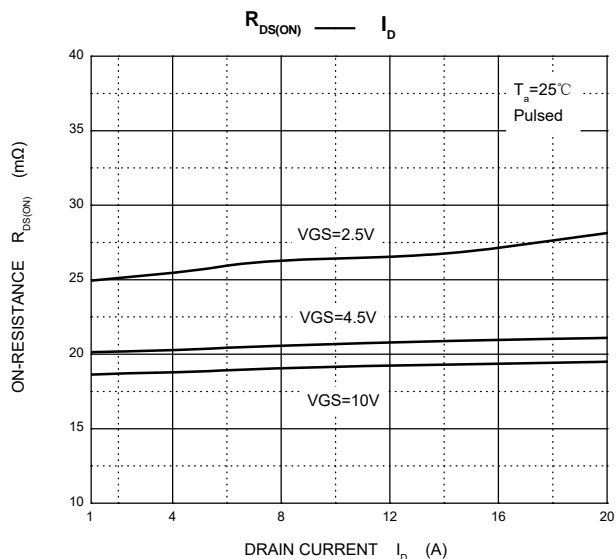
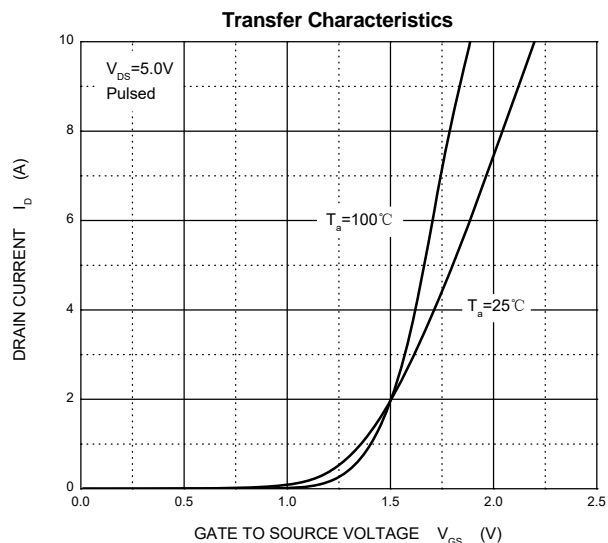
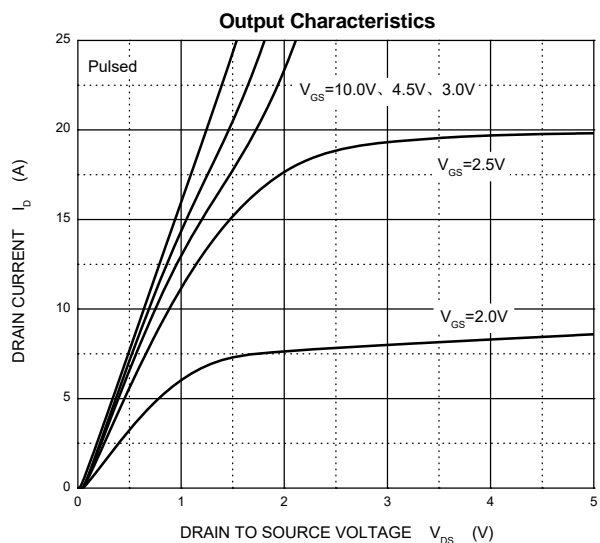
EQUIVALENT CIRCUIT



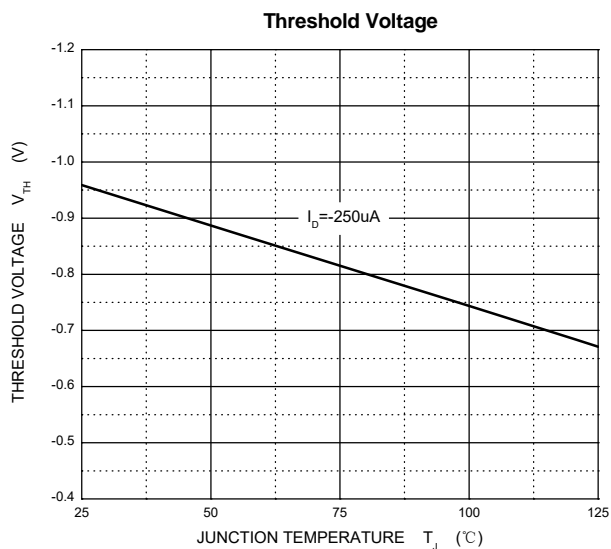
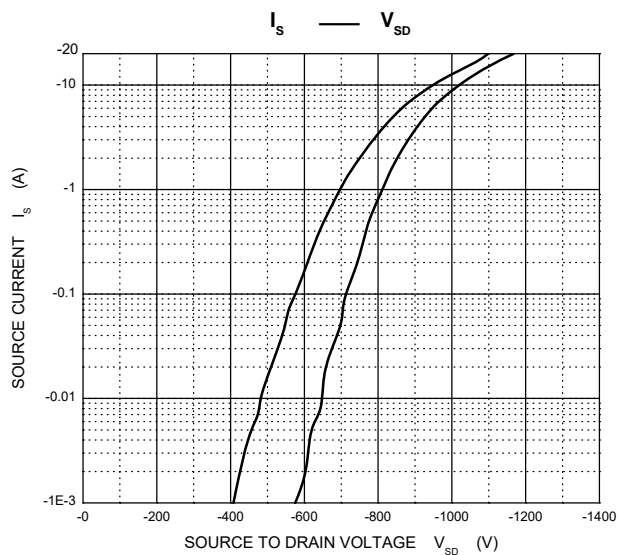
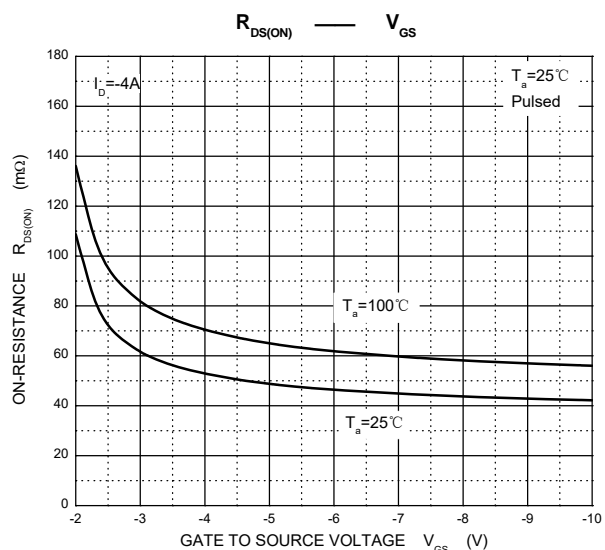
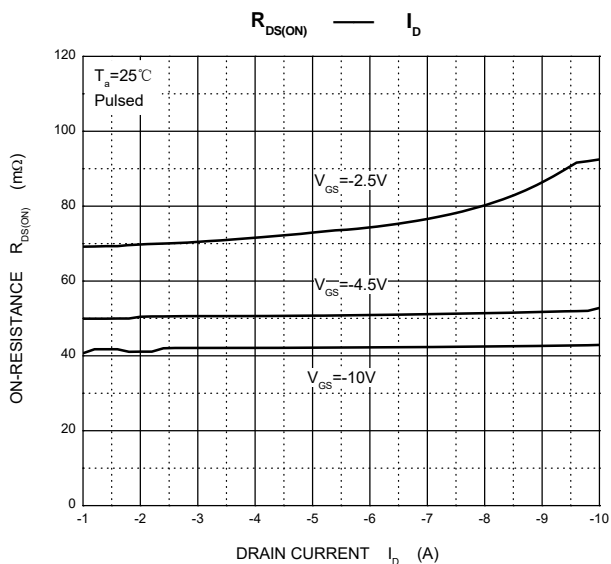
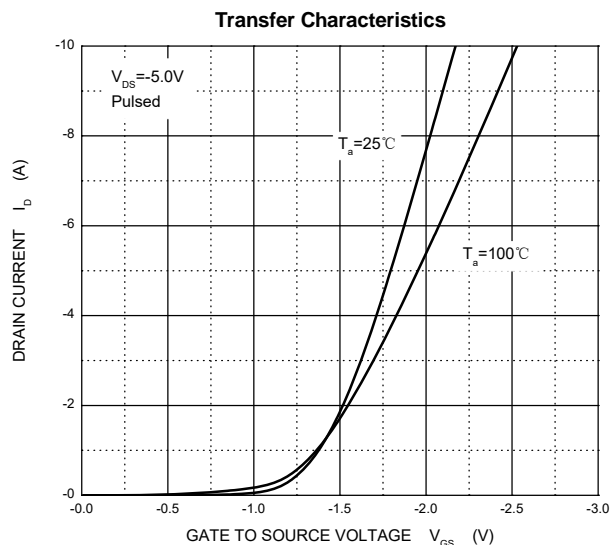
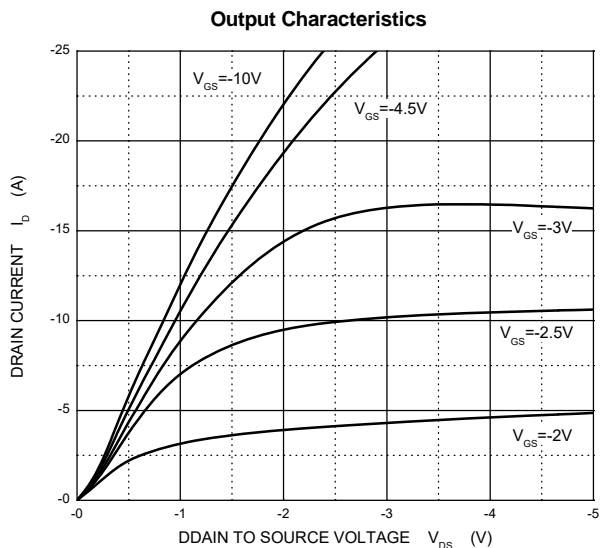
MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value		Unit
		N-ch MOS	P-ch MOS	
V_{DS}	Drain-Source Voltage	30	-30	V
V_{GS}	Gate-Source Voltage	± 12	± 12	V
I_D	Drain Current -Continuous(Note1)	5.8	-4.2	A
I_{DM}	Drain Current - Pulse(Note3)	23.2	-16.8	A
Power Dissipation, Temperature and Thermal Resistance				
P_D	Power Dissipation		1.4	W
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient		89	$^\circ\text{C/W}$
T_j	Junction Temperature		150	$^\circ\text{C}$
T_{stg}	Storage Temperature		-55~+150	$^\circ\text{C}$
T_L	Lead Temperature		260	$^\circ\text{C}$

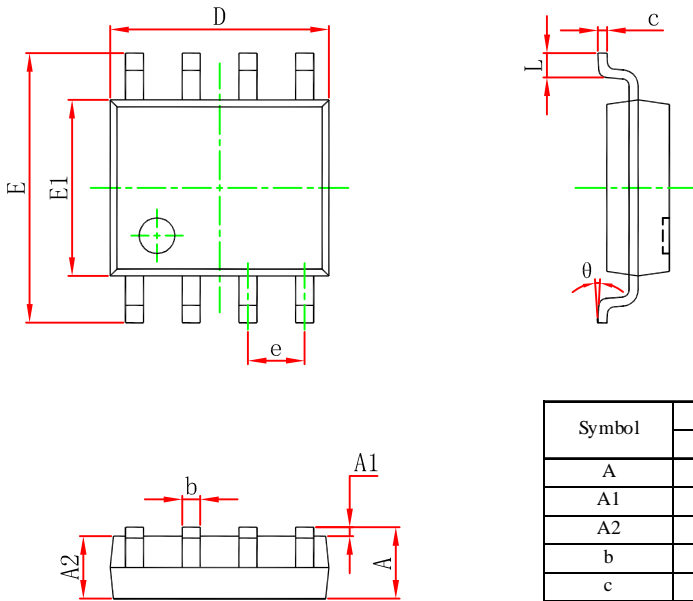
N-channel MOSFET ELECTRICAL CHARACTERISTICS



P-channel MOSFET ELECTRICAL CHARACTERISTICS

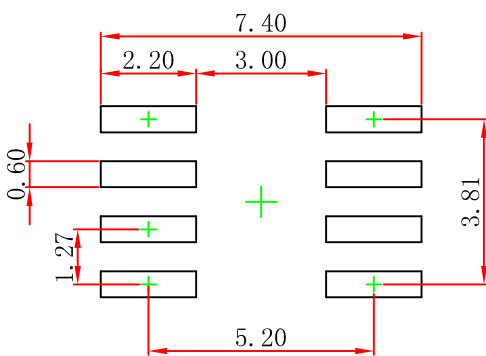


SOP8 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	---	1.750	---	0.069
A1	0.100	0.250	0.004	0.010
A2	1.250	1.500	0.049	0.059
b	0.330	0.510	0.013	0.020
c	0.170	0.250	0.007	0.010
D	4.800	5.000	0.189	0.197
e	1.270 (BSC)		0.050 (BSC)	
E	5.800	6.200	0.228	0.244
E1	3.800	4.000	0.150	0.157
L	0.400	1.270	0.016	0.050
θ	0°	8°	0°	8°

SOP8 Suggested Pad Layout



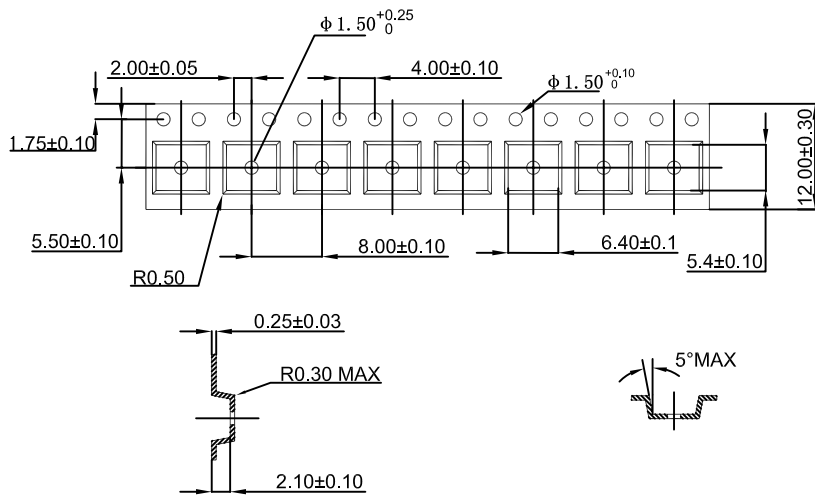
Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

127, & (
- 6 & -UHVHUVKULJWWDNFRGLILFDWLRQV HQKDQFHPHQWVRLRSLURKRYJHPHQW
FKDQJLWKRQWQRWWRBQSURGXFWH6Q-GRHQRDWVXDQOLDLQJ
RXW RI WKH DSSOLFDWLRQ RU XVH RI DQ\ SURGXFW GHVFULEHG KHU

SOP8 Tape and Reel

SOP8 Embossed Carrier Tape

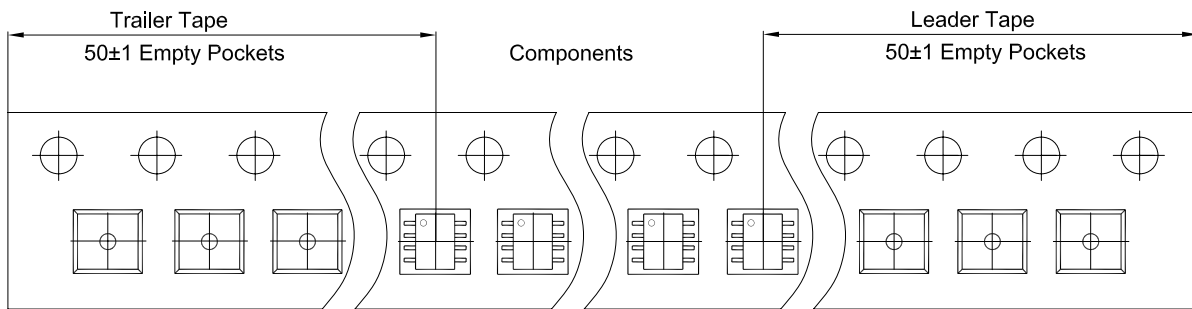


Packaging Description:

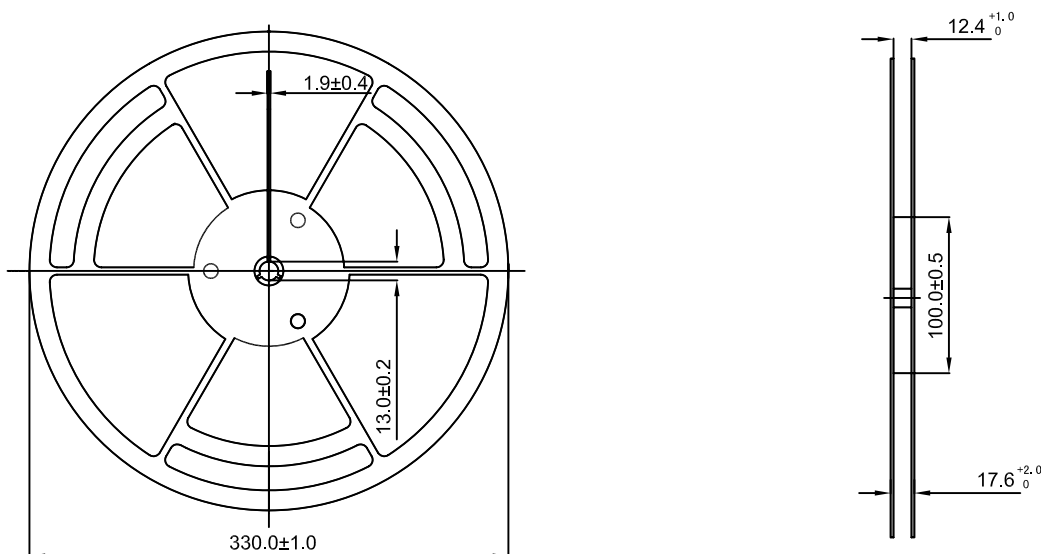
SOP8 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 2,500 units per 13" or 33cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

ALL DIM IN mm

SOP8 Tape Leader and Trailer



SOP8 Reel



REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
2,500 pcs	13 inch	5,000 pcs	336×336×48	40,000 pcs	445×355×365	