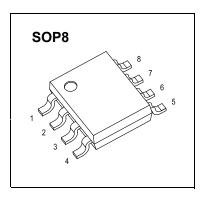


JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

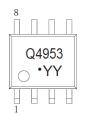
SOP8 Plastic-Encapsulate MOSFETS

CJQ4953 P-Channel 30-V(D-S) MOSFET

V _{(BR)DSS}	R _{DS(on)} MAX	Ι _D
2017	60mΩ@-10V	ΓΛ.
-30V	90mΩ@-4.5√	-5A



MARKING:



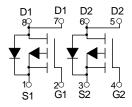
Q4953= Device code

YY=Date Code

Solid dot = Pin1 indicator

Solid dot = Green molding compound device, if none,the normal device.

Equivalent Circuit



Maximum ratings (T_a=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Voltage	V_{GS}	±20	V
Continuous Drain Current (t≤10s)	I _D	-5	Α
Power Dissipation (t≤10s)	P _D	1.25	W
Thermal Resistance from Junction to Ambient (t≤10s)	$R_{\theta JA}$	100	°C/W
Junction Temperature	TJ	150	°C.
Storage Temperature	T _{STG}	-55~+150	J

MOSFET ELECTRICAL CHARACTERISTICS

T_a =25 °C unless otherwise specified

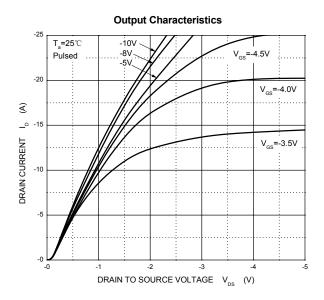
Parameter Symbol Test C		Test Condition	Min	Тур	Max	Units	
Static	1		l				
Drain-source breakdown voltage	V(BR)DSS	V _{GS} =0V, I _D =-250μA				V	
Gate-threshold voltage	VGS(th)	V _{DS} =V _{GS} , I _D =-250μA	-1.0	-1.5		V	
Gate-body leakage	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA	
Zero gate voltage drain current	I _{DSS}	V _{DS} =-30V, V _{GS} =0V			-1	μA	
Drain-source on-resistance ^a	В	V _{GS} =-10V, I _D =-4.9A		50	60	mO.	
Dialii-source on-resistance	R _{DS(on)}	V _G S =-4.5V, I _D =-3.7A		66	90	mΩ	
Forward transconductance ^a	g _{fs}	V _{DS} =-10V, I _D =-4.9A	6.0			S	
Diode forward voltage ^a		I _S =-1.7A,V _{GS} =0V			-1.2	V	
Dynamic ^b							
Total gate charge	Q_g				25		
Gate-source charge	Q _{gs}	V _{DS} =-15V,V _{GS} =-10V,I _D =-4.9A		4		nC	
Gate-drain charge	Q_{gd}			2		1	
Turn-on delay time	$t_{d_{(on)}}$				15		
Rise time	tr	V _{DD} =-15V,R _L =15Ω, I _D ≈-1A,			20	0	
Turn-off delay time	td(off)	V_{GEN} =-10 V , R_G =6 Ω			80	nS	
Fall time	t f				40	1	

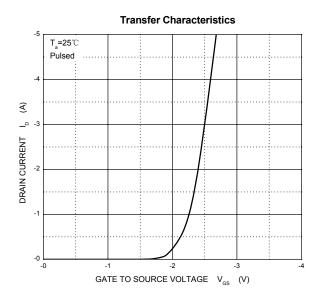
Notes:

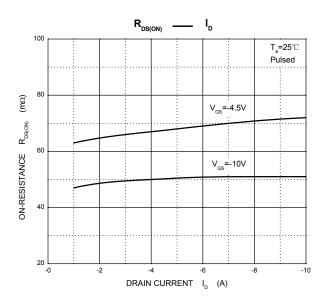
a. Pulse Test : Pulse width≤300µs, duty cycle ≤2%.

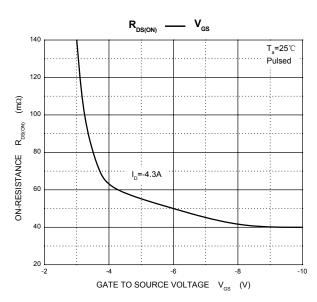
b. Guaranteed by design, not subject to production testing.

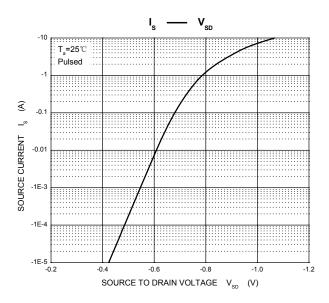
Typical Characteristics



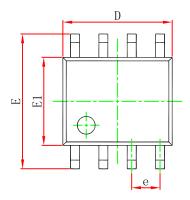


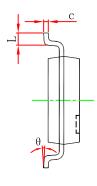


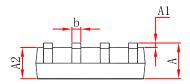




SOP8 Package Outline Dimensions

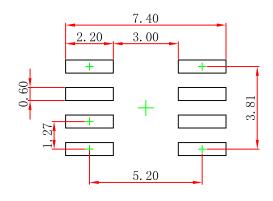






Symbol	Dimensions In	Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	1.350	1.750	0.053	0.069	
A1	0.100	0. 250	0.004	0.010	
A2	1.350	1.550	0.053	0.061	
b	0.330	0.510	0.013	0.020	
c	0.170	0.250	0.007	0.010	
D	4.800	5.000	0.189	0.197	
e	1. 270	(BSC)	0.050	(BSC)	
E	5.800	6.200	0. 228	0. 244	
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:

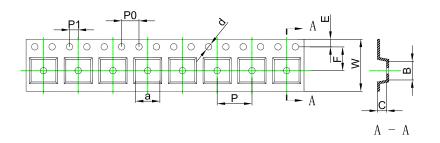
- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

NOTICE

JCET reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. JCET does not assume any liability arising out of the application or use of any product described herein.

SOP8 Tape and Reel

SOP8 Embossed Carrier Tape



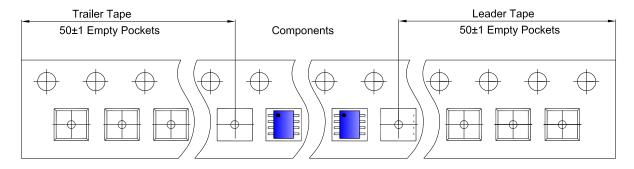
Packaging Description:

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).

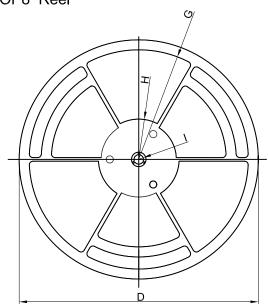
ALL DIM IN mm

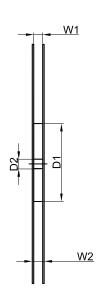
Dimensions are in millimeter										
Pkg type a B C d E F P0 P P1 W								W		
SOP8	6.40	5.40	2.10	Ø1.50	1.75	5.50	4.00	8.00	2.00	12.00

SOP8 Tape Leader and Trailer









Dimensions are in millimeter								
Reel Option D D1 D2 G H I W1 W							W2	
13"Dia	Ø330.00	100.00	13.00	R151.00	R56.00	R6.50	12.40	17.60

REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
4,000 pcs	13 inch	8,000 pcs	360×360×65	64,000 pcs	565×380×390	