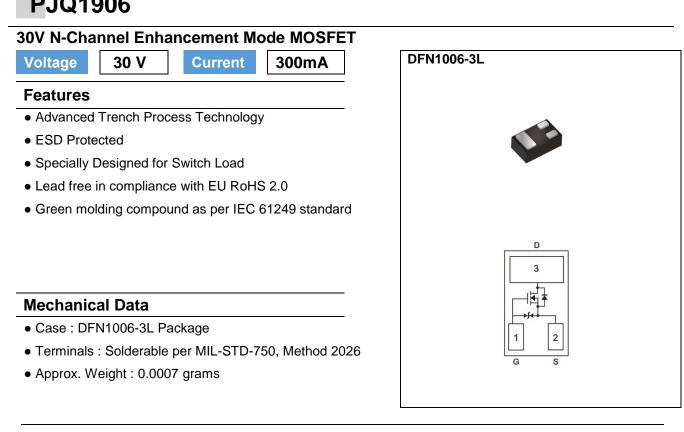
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	CONDUCTOR



Maximum Ratings and Thermal Characteristics (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS	
Drain-Source Voltage		V _{DS}	30	V	
Gate-Source Voltage	V _{GS}	±10			
Continuous Drain Current ^(Note 4)		ID	300	mA	
Pulsed Drain Current ^(Note 1)		I _{DM}	600		
Power Dissipation	T _A =25°C	D -	700	mW	
	Derate above 25°C	PD	5.6	mW/∘C	
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	٥C	
Typical Thermal Resistance - Junction to Ambient ^(Note 5)		R _{θJA}	175	°C/W	



Electrical Characteristics (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Static							
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =250uA	30	-	-	V	
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250uA	0.4	0.75	1.0		
Drain-Source On-State Resistance		V _{GS} =4.5V,I _D =300mA	-	0.7	1.2	-	
		V _{GS} =2.5V,I _D =200mA	-	0.8	1.6		
	R _{DS(on)}	V _{GS} =1.8V,I _D =100mA	-	0.9	2.0	Ω	
		V _{GS} =1.5V,I _D =50mA	-	1.1	3.0		
		V _{GS} =1.2V,I _D =20mA		1.5	4.0		
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =24V, V _{GS} =0V	-	-	1		
Gate-Source Leakage Current	I _{GSS}	V _{GS} =±8V, V _{DS} =0V	-	-	±10	uA	
Dynamic ^(Note 6)							
Total Gate Charge	Qg		-	0.9	-	nC	
Gate-Source Charge	Qgs	$V_{DS}=10V, I_{D}=300mA,$	-	0.3	-		
Gate-Drain Charge	Q_gd	V _{GS} =4.5V	-	0.2	-		
Input Capacitance	Ciss		-	45	-		
Output Capacitance	Coss	V _{DS} =10V, V _{GS} =0V, f=1.0MHZ	-	14	-	pF	
Reverse Transfer Capacitance	Crss		-	0.8	-		
Turn-On Delay Time	td _(on)		-	8.3	-		
Turn-On Rise Time	tr	V _{DD} =10V, I _D =300mA,	-	5.7	-	ns	
Turn-Off Delay Time	td(off)	V _{GS} =4V, R _G =10Ω ^(Note 1,2)	-	35	-		
Turn-Off Fall Time	tf		-	12	-		
Drain-Source Diode							
Diode Forward Current	Is		-	-	300	mA	
Diode Forward Voltage	V _{SD}	Is=300mA, V _{GS} =0V	-	0.9	1.3	V	

Notes :

1.Pulse width<300us, Duty cycle<2%.

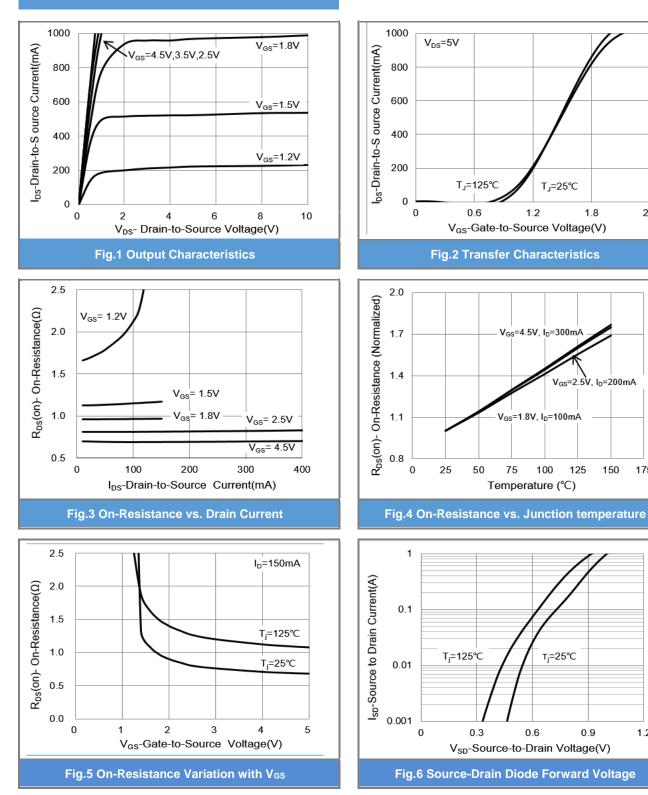
2.Essentially independent of operating temperature typical characteristics.

3.Repetitive rating, pulse width limited by junction temperature TJ(MAX)=150°C.Ratings are based on low frequency and duty cycles to keep initial TJ = 25°C.

4.R_{BJA} is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins. Mounted on a 1 inch² with 2oz.square pad of copper.

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





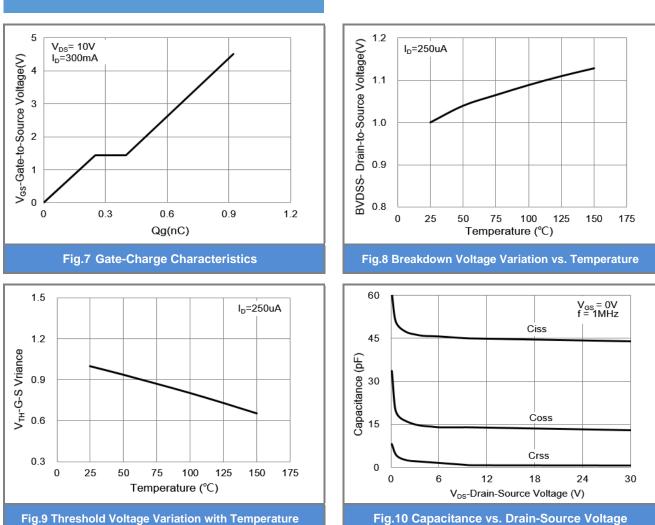
TYPICAL CHARACTERISTIC CURVES

1.2

2.4

175





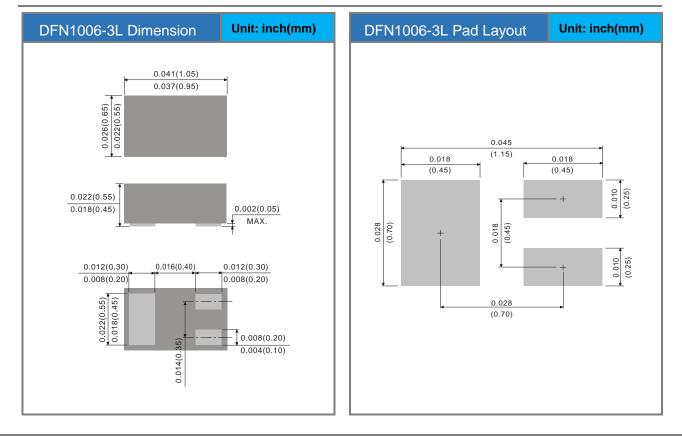
TYPICAL CHARACTERISTIC CURVES



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PJQ1906_R1_00201	DFN1006-3L	10K pcs / 7" reel	6	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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