

Maximum Ratings and Thermal Characteristics (T_A=25^oC unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS	
Drain-Source Voltage		V _{DS}	50	V	
Gate-Source Voltage		V _{GS}	±20		
Continuous Drain Current ^(Note 4)		ID	500	mA	
Pulsed Drain Current ^(Note 1)		I _{DM}	1200		
Power Dissipation	T _A =25°C	Po	900	mW	
	Derate above 25°C		7.2	mW/ºC	
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	°C	
Thermal Resistance - Junction to Ambient, t<10s ^(Note 5)		R _{0JA}	139	°C/W	



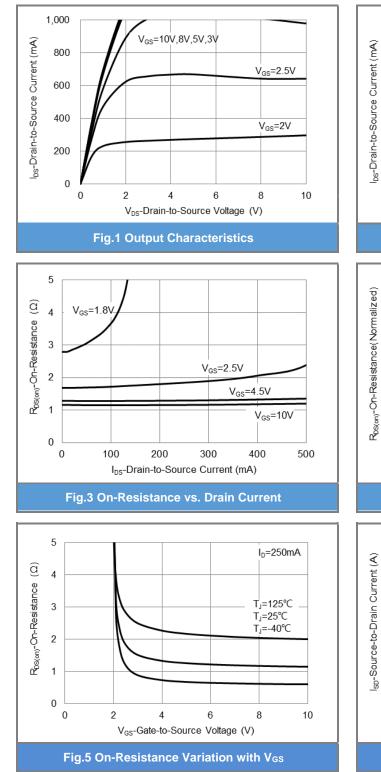
Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Static							
Drain-Source Breakdown Voltage	BV _{DSS}	V_{GS} =0V, I _D =250uA	50	V			
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250uA	0.5	0.86	1	V	
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =10V, I _D =500mA	-	1.2	1.45		
		V _{GS} =4.5V, I _D =200mA	-	1.3	1.95		
		V _{GS} =2.5V, I _D =100mA	-	1.7	4	Ω	
		V _{GS} =1.8V, I _D =10mA	-	3	6		
Zero Gate Voltage Drain Current	I _{DSS}	V_{DS} =50V, V_{GS} =0V	-	-	1	uA	
Gate-Source Leakage Current	I _{GSS}	V _{GS} =±20V, V _{DS} =0V	-	-	±10		
Dynamic ^(Note 6)							
Total Gate Charge	Qg		-	0.95	-	nC	
Gate-Source Charge	Q _{gs}	V _{DS} =25V, I _D =500mA, V _{GS} =4.5V ^(Note 1,2)	-	0.34	-		
Gate-Drain Charge	Q_{gd}	VGS=4.5V(*******,=)	-	0.32	-		
Input Capacitance	Ciss		-	36	-	pF	
Output Capacitance	Coss	V _{DS} =25V, V _{GS} =0V, f=1MHz	-	11	-		
Reverse Transfer Capacitance	Crss		-	6.6	-		
Turn-On Delay Time	td _(on)		-	2.3	-		
Turn-On Rise Time	tr	V _{DD} =25V, I _D =500mA,	-	20	-	ns	
Turn-Off Delay Time	td(off)	$V_{GS}=10V,$ $R_G=3\Omega^{(Note 1,2)}$	-	7	-		
Turn-Off Fall Time	tf		-	20	-		
Drain-Source Diode							
Diode Forward Current	Is		-	-	500	mA	
Diode Forward Voltage	V _{SD}	I _S =500mA, V _{GS} =0V	-	0.9	1.5	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 $T_{J(MAX)}=150$ °C. Ratings are based on low frequency and duty cycles to keep initial $T_J=25$ °C.
- 4. The maximum current rating is package limited.
- 5. $R_{\theta JA}$ 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.
- 6. Guaranteed by design, not subject to production testing.







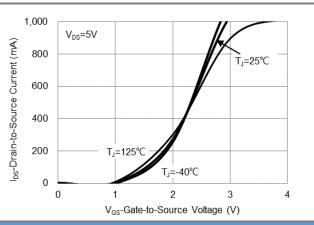


Fig.2 Transfer Characteristics

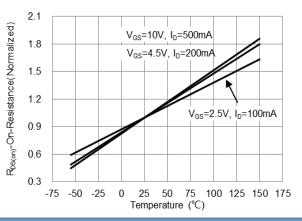
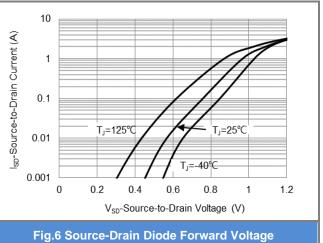


Fig.4 On-Resistance vs. Junction temperature





TYPICAL CHARACTERISTIC CURVES

Fig.7 Gate-Charge Characteristics

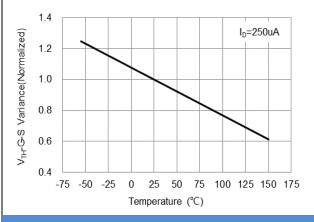


Fig.9 Threshold Voltage Variation with Temperature

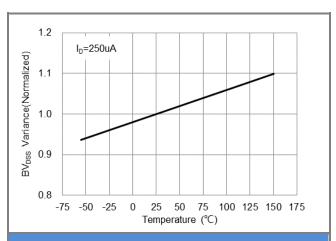


Fig.8 Breakdown Voltage Variation vs. Temperature

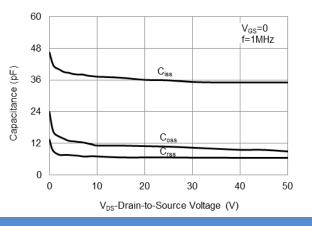


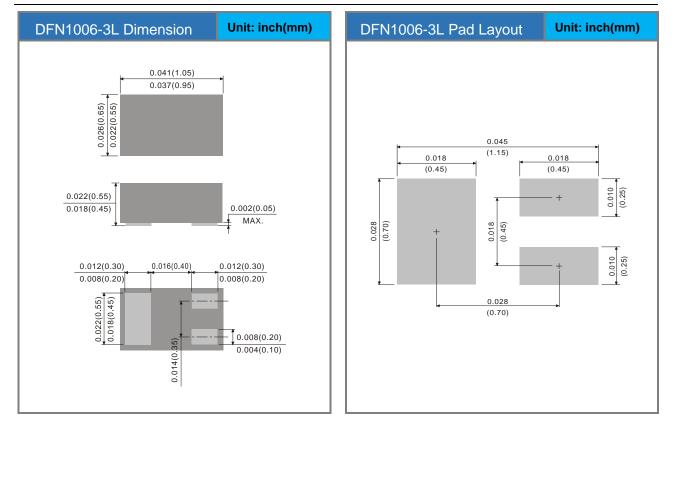
Fig.10 Capacitance vs. Drain-Source Voltage



Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
PJQ1908-AU	DFN1006-3L	10K pcs / 7" reel	8	

Packaging Information & Mounting Pad Layout





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