PAN	JIT
	SEMI
	CONDUCTOR

30V P-Channel Enhancement Mode MOSFET

Current

-30 V

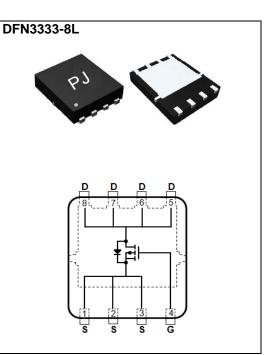
Features

Voltage

- R_{DS(ON)}, V_{GS}@-10V,I_D@-10A<8.5mΩ
- $R_{DS(ON)}$, V_{GS} @-4.5V, I_D @-8A<14m Ω
- High switching speed
- Improved dv/dt capability
- Low gate charge
- Low reverse transfer capacitance
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 Standard

Mechanical Data

- Case: DFN3333-8L Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.001 ounces, 0.03 grams



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

-50 A

PARAMETER Drain-Source Voltage		SYMBOL	LIMIT	UNITS
		V _{DS}	-30	
Gate-Source Voltage		V _{GS}	<u>+</u> 20	V
Continuous Drain Current	Tc=25°C		-50	
	Tc=100°C	ID	-32	A
Pulsed Drain Current ^(Note 1)	Tc=25°C	I _{DM}	-200	
Power Dissipation	Tc=25°C		60	10/
	Tc=100°C	PD	24	W
Continuous Drain Current	T _A =25°C		-10	
	T _A =70°C	I _D	-8	A
Power Dissipation	T _A =25°C		2.0	14/
Power Dissipation	T _A =70°C	PD	1.3	W
Operating Junction and Storage	Temperature Range	TJ,TSTG	-55~150	٥C
Typical Thermal Resistance ^(Note 4,5)	Junction to Case	Rejc	2.1	
	Junction to			°C/W
	Ambient	R _{0JA} 62.5		



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	-30	-	-	
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} ,I _D =-250uA	-1.0	-1.5	-2.5	V
Drain-Source On-State Resistance		V _{GS} =-10V,I _D =-10A	-	7.1	8.5	mΩ
	RDS(on)	V _{GS} =-4.5V,I _D =-8A	-	10	14	
Zero Gate Voltage Drain Current	IDSS	V _{DS} =-30V,V _{GS} =0V	-	-	-1.0	uA
Gate-Source Leakage Current	Igss	V _{GS} = <u>+</u> 20V,V _{DS} =0V	-	-	<u>+</u> 100	nA
Dynamic ^(Note 6)						
Total Gate Charge	Qg	V _{DS} =-15V, I _D =-10A, V _{GS} =-4.5V ^(Note 1,2)	-	27	-	nC
Gate-Source Charge	Qgs		-	8.4	-	
Gate-Drain Charge	Q _{gd}		-	8.7	-	
Input Capacitance	Ciss	V _{DS} =-15V, V _{GS} =0V, f=1.0MHZ	-	3228	-	pF
Output Capacitance	Coss		-	396	-	
Reverse Transfer Capacitance	Crss		-	254	-	
Turn-On Delay Time	td _(on)	V _{DS} =-15V,ID=-1A, V _{GS} =-10V, R _G =6Ω (Note 1,2)	-	10	-	
Turn-On Rise Time	tr		-	13	-	-
Turn-Off Delay Time	td _(off)		-	111	-	ns
Turn-Off Fall Time	t _f		-	51	-	
Drain-Source Diode		·				
Maximum Continuous Drain-Source Diode Forward Current	Is		-	-	-50	A
Diode Forward Voltage	V _{SD}	Is=-1A,VGs=0V	-	-0.7	-1	V

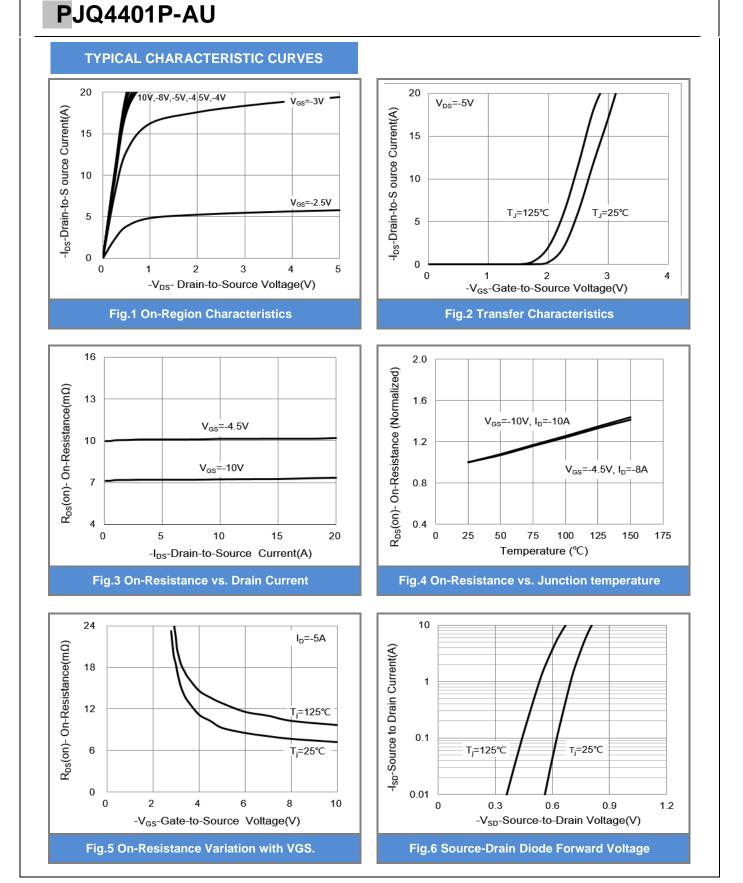
NOTES :

- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics
- 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.

January 26,2022

PJQ4401P-AU-REV.03

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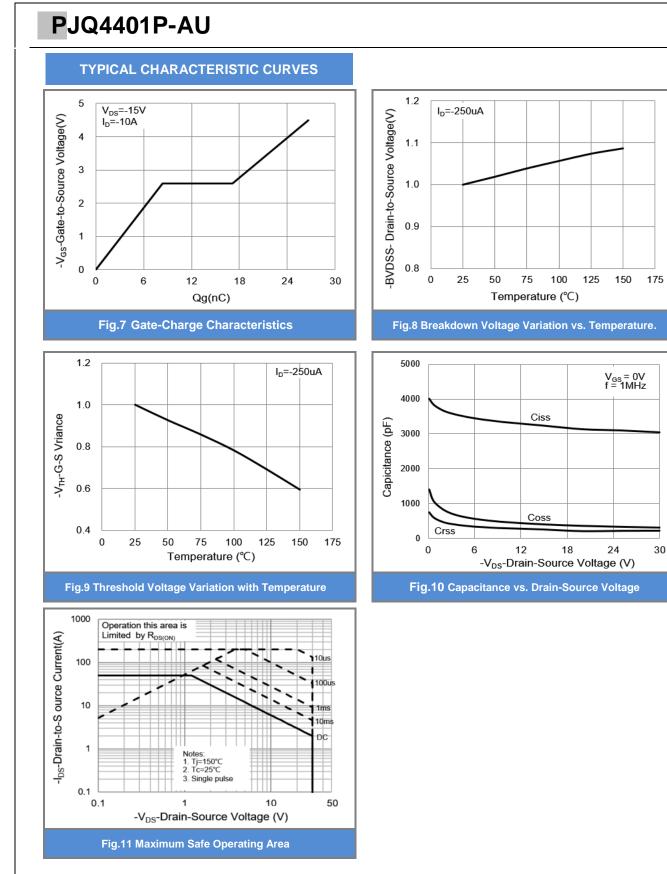


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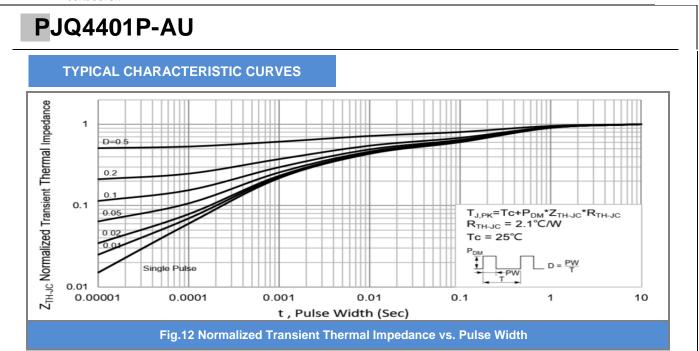
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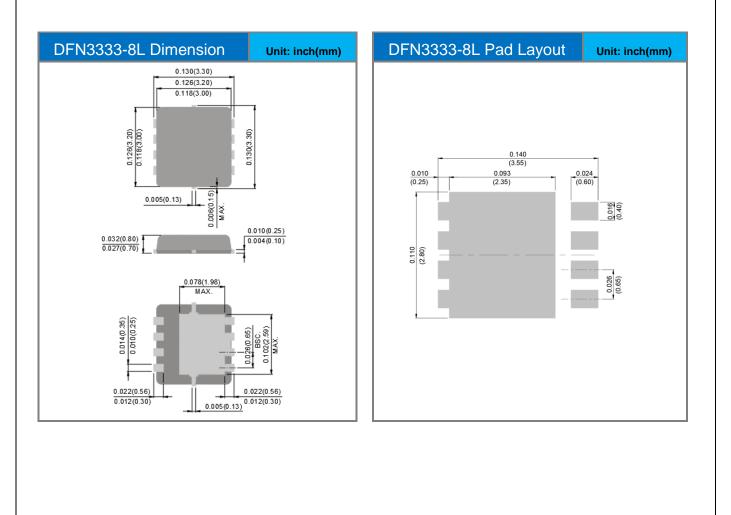




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PJQ4401P-AU_R2_000A1	DFN3333-8L	5K pcs / 13" reel	4401	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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