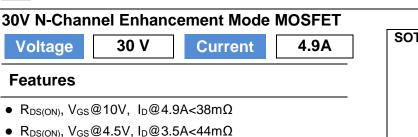
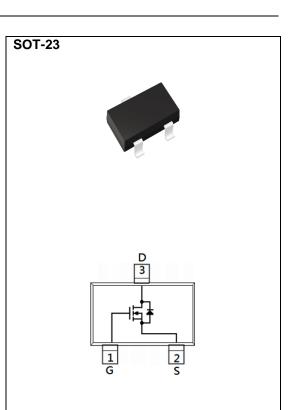
ΡΛΝ	JIT
	SEMI
	CONDUCTOR



- R_{DS(ON)}, V_{GS}@2.5V, I_D@2.7A<60mΩ
- Advanced Trench Process Technology
- Specially Designed for Switch Load, PWM Application, etc
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : SOT-23 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0003 ounces, 0.0084 grams



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}	<u>+</u> 12			
Continuous Drain Current ^(Note 4)		ID	4.9	A	
Pulsed Drain Current ^(Note 1)		Ідм	19.6		
Power Dissipation	Ta=25°C	PD	1.25	W	
	Derate above 25°C		10	mW/°C	
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	°C	
Typical Thermal Resistance - Junction to Ambient ^(Note 3,4)		Reja	100	°C/W	



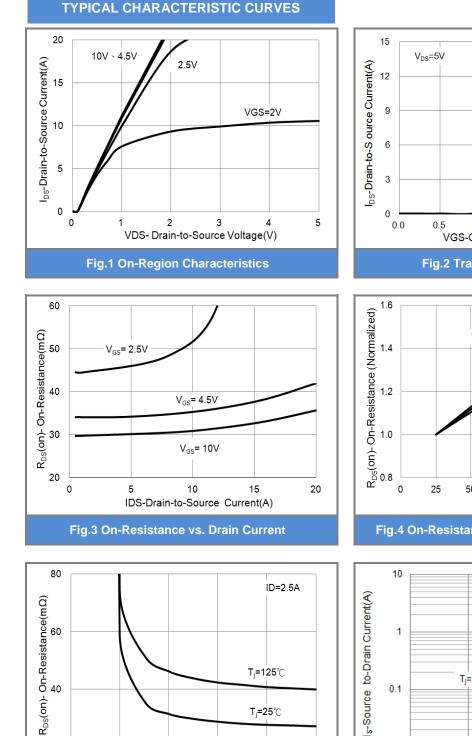
Electrical Characteristics (T_A=25°C unless otherwise noted)

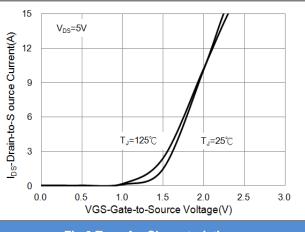
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static				-		_
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =250uA	30	-	-	
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250uA	0.5	0.84	1.3	
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =10V, I _D =4.9A	-	28	38	mΩ
		V _{GS} =4.5V, I _D =3.5A	-	32	44	
		V _{GS} =2.5V, I _D =2.7A	-	45	60	
Zero Gate Voltage Drain Current	IDSS	V _{DS} =30V, V _{GS} =0V	-	-	1	uA
Gate-Source Leakage Current	lgss	V _{GS} = <u>+</u> 12V, V _{DS} =0V	-	-	<u>+</u> 100	nA
Dynamic ^(Note 5)						
Total Gate Charge	Qg		-	5.7	-	nC
Gate-Source Charge	Q _{gs}	V_{DS} =15V, I _D =4.9A, V_{GS} =10V ^(Note 1,2)	-	1.1	-	
Gate-Drain Charge	Q_{gd}		-	1.5	-	
Input Capacitance	Ciss	V _{DS} =15V, V _{GS} =0V,	-	490	-	pF
Output Capacitance	Coss		-	44	-	
Reverse Transfer Capacitance	Crss	f=1MHZ	-	32	-	
Turn-On Delay Time	td _(on)		-	2	-	
Turn-On Rise Time	tr	V _{DD} =15V, I _D =4.9A, V _{GS} =10V,	-	57	-	
Turn-Off Delay Time	td _(off)		-	78	-	ns
Turn-Off Fall Time	tf	$R_G=3\Omega^{(Note 1,2)}$	-	79	-	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	ls		-	-	1.5	А
Diode Forward Voltage	V _{SD}	Is=1A, V _{GS} =0V	-	0.77	1.2	V

NOTES :

- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. R_{OJA} 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 inch FR-4 with 2oz. square pad of copper.
- 4. The maximum current rating is package limited.
- 5. Guaranteed by design, not subject to production testing.









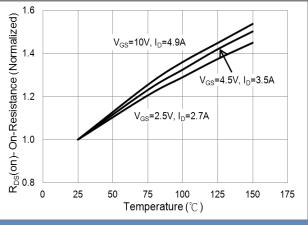
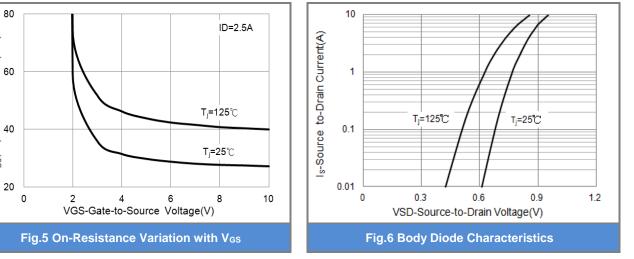
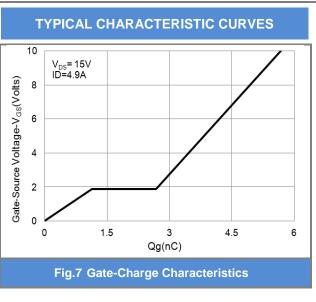


Fig.4 On-Resistance vs. Junction temperature





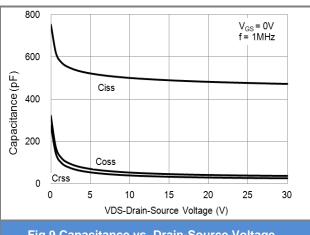
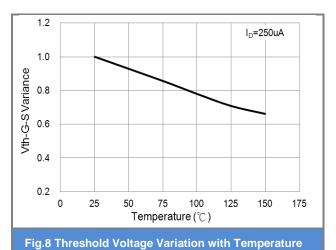


Fig.9 Capacitance vs. Drain-Source Voltage





PJA3400-AU

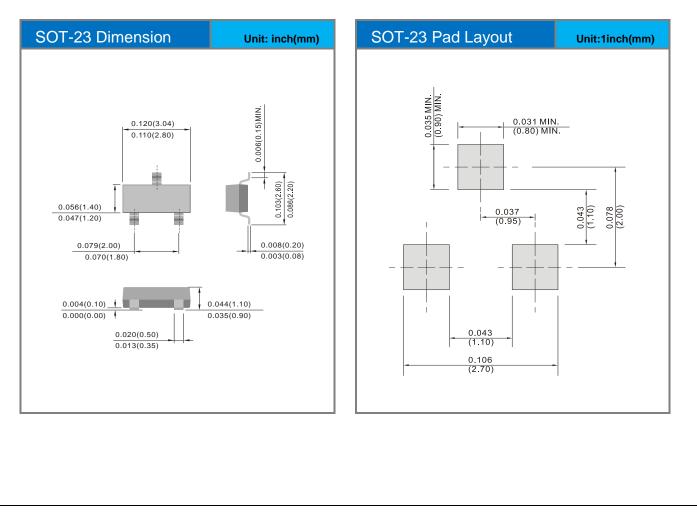




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PJA3400-AU_R1_000A1	SOT-23	3K pcs / 7" reel	A00	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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