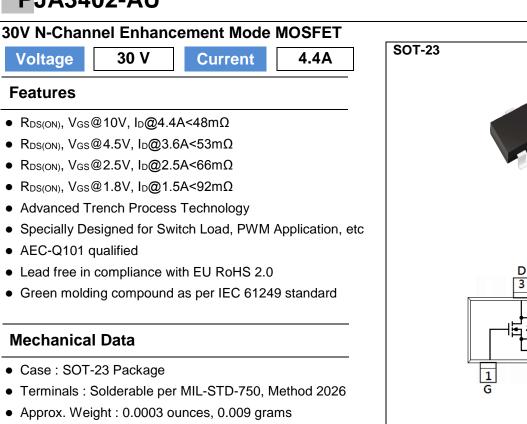
PJA3402-AU



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	4.4	A	
Pulsed Drain Current (Note 1)		I _{DM}	17.6		
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)		Roja	100	°C/W	



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

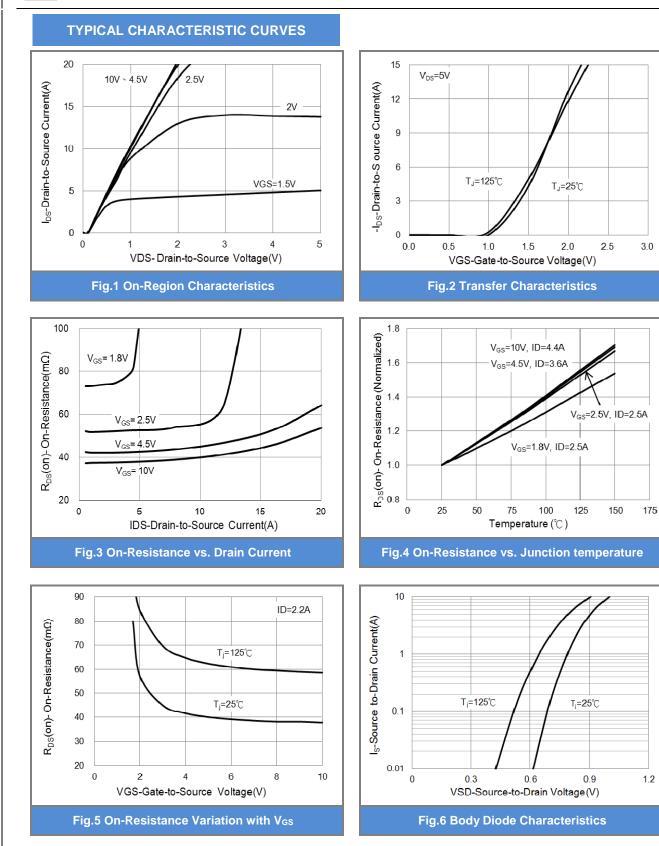
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =250uA	30	-	-	- V
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250uA	0.4	0.72	1.2	
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =10V, I _D =4.4A	-	37	48	- mΩ
		V _{GS} =4.5V, I _D =3.6A	-	40	53	
		V _{GS} =2.5V, I _D =2.5A	-	48	66	
		Vgs=1.8V, Id=1.5A	-	62	92	
Zero Gate Voltage Drain Current	I _{DSS}	V_{DS} =30V, V_{GS} =0V	-	-	1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 12V, V _{DS} =0V	-	-	<u>+</u> 100	nA
Dynamic (Note 5)						
Total Gate Charge	Qg	V _{DS} =15V, I _D =4.4A, V _{GS} =10V ^(Note 1,2)	-	11.3	-	nC
Gate-Source Charge	Q_gs		-	1	-	
Gate-Drain Charge	Q _{gd}		-	1.2	-	
Input Capacitance	Ciss	V _{DS} =15V, V _{GS} =0V,	-	447	-	pF
Output Capacitance	Coss		-	34	-	
Reverse Transfer Capacitance	Crss	f=1MHZ	-	22	-	
Turn-On Delay Time	td _(on)		-	1.7	-	ns
Turn-On Rise Time	tr	V_{DD} =15V, I _D =4.4A, V _{GS} =10V, R _G =3Ω ^(Note 1,2)	-	38	-	
Turn-Off Delay Time	td _(off)		-	82	-	
Turn-Off Fall Time	tf		-	64	-	
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 :

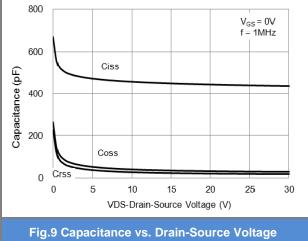
- 1. Pulse width</br>300us, Duty cycle2%.
- 2. Essentially independent of operating temperature typical characteristics.
- 3. R_{OJA} is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins 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.

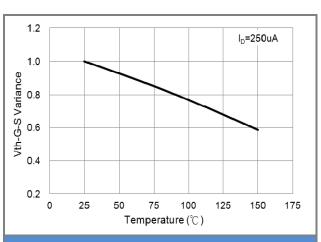
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TYPICAL CHARACTERISTIC CURVES 10 1.2 V_{DS}= 15V ID=4.4A Gate-Source Voltage-V_{GS}(Volts) 8 1.0 Vth-G-S Variance 9.0 8.0 8.0 6 4 2 0.4 0 0.2 0 3 6 9 0 12 Qg(nC) Fig.7 Gate-Charge Characteristics 800







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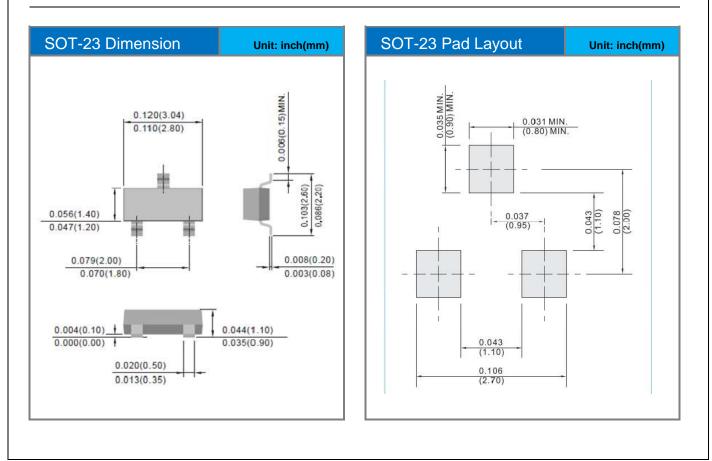


PJA3402-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJA3402-AU_R1_000A1	SOT-23	3K pcs / 7" reel	A02	Halogen free

Packaging Information & Mounting Pad Layout





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