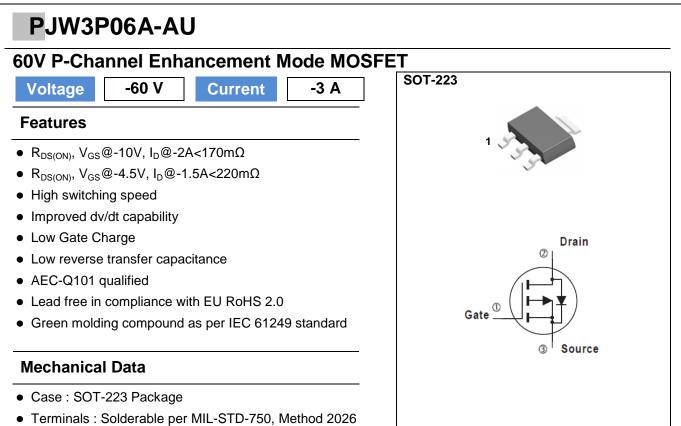
ΡΛΝ	JIT
	SEMI
	CONDUCTOR



• Approx. Weight : 0.043 ounces, 0.123grams

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

PARAMETER		SYMBOL	LIMIT	UNITS	
Drain-Source Voltage		V _{DS}	-60		
Gate-Source Voltage		V _{GS}	<u>+</u> 20	V	
Continuous Drain Current (Note 4)	T _A =25°C		-3		
	T _A =70 ^o C	I _D	-2.4	A	
Pulsed Drain Current (Note 1)		I _{DM}	-12		
Power Dissipation	T _A =25°C	P _D	3.1		
	T _A =70°C		2	W	
Single Pulse Avalanche Energy (Note 6)		E _{AS}	32	mJ	
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150	°C	
Typical Thermal Resistance					
- Junction to Ambient (Note 4,5)		$R_{ extsf{ heta}JA}$	40.3	°C/W	

• Limited only By Maximum Junction Temperature



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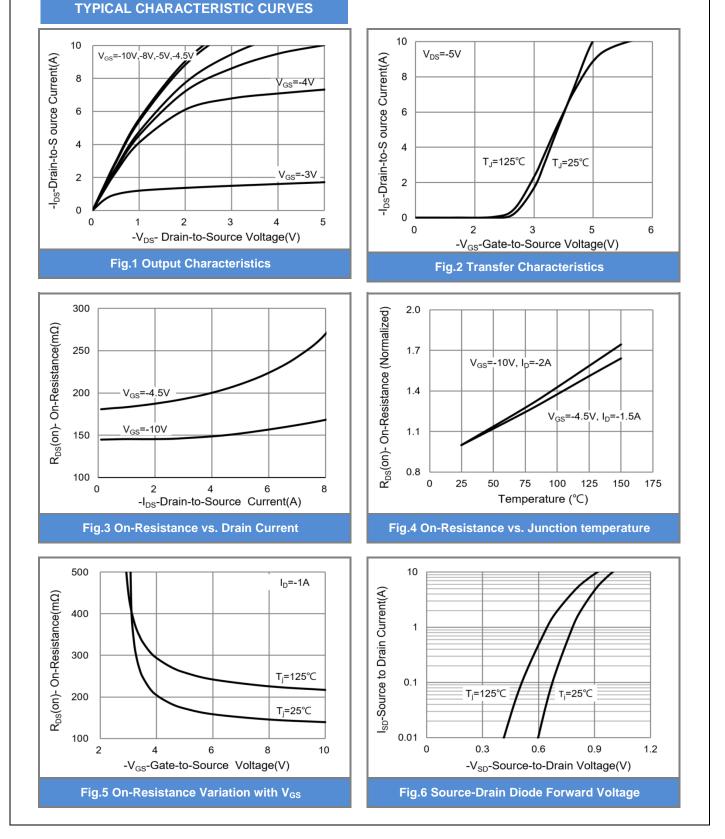
Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static	I		1		ı	
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =-250uA	-60	-	-	
Gate Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=-250$ uA	-1	-1.88	-2.5	V
Drain-Source On-State Resistance		V _{GS} =-10V, I _D =-2A	-	140	170	mΩ
	R _{DS(on)}	V _{GS} =-4.5V, I _D =-1.5A	-	190	220	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-60V, V _{GS} =0V	-	-	-1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 20V, V _{DS} =0V	-	-	<u>+</u> 100	nA
Dynamic (Note 7)						
Total Gate Charge	Qg	V_{DS} =-30V, I _D =-2A, V _{GS} =-10V ^(Note 2,3)	-	8.3	-	
Gate-Source Charge	Q _{gs}		-	1.8	-	nC
Gate-Drain Charge	Q _{gd}		-	1.6	-	
Input Capacitance	Ciss	V _{DS} =-30V, V _{GS} =0V,	-	430	-	pF
Output Capacitance	Coss		-	33	-	
Reverse Transfer Capacitance	Crss	f=1MHZ	-	29	-	
Turn-On Delay Time	td _(on)	V_{DD} =-30V, I _D =-1A, V_{GS} =-10V, R_{G} =6 Ω ^(Note 2,3)	-	5.1	-	
Turn-On Rise Time	tr		-	20	-	
Turn-Off Delay Time	td _(off)		-	36	-	ns
Turn-Off Fall Time	t _f		-	11	-	
Drain-Source Diode						
Maximum Continuous Drain-Source					2	
Diode Forward Current	ا _S		-	-	-2	A
Diode Forward Voltage	V _{SD}	I _S =-1A, V _{GS} =0V	-	-0.78	-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. The test condition is L=1mH, $I_{AS}\text{=-8A},\,V_{DD}\text{=-25V},\,V_{GS}\text{=-10V}$
- 7. Guaranteed by design, not subject to production testing.

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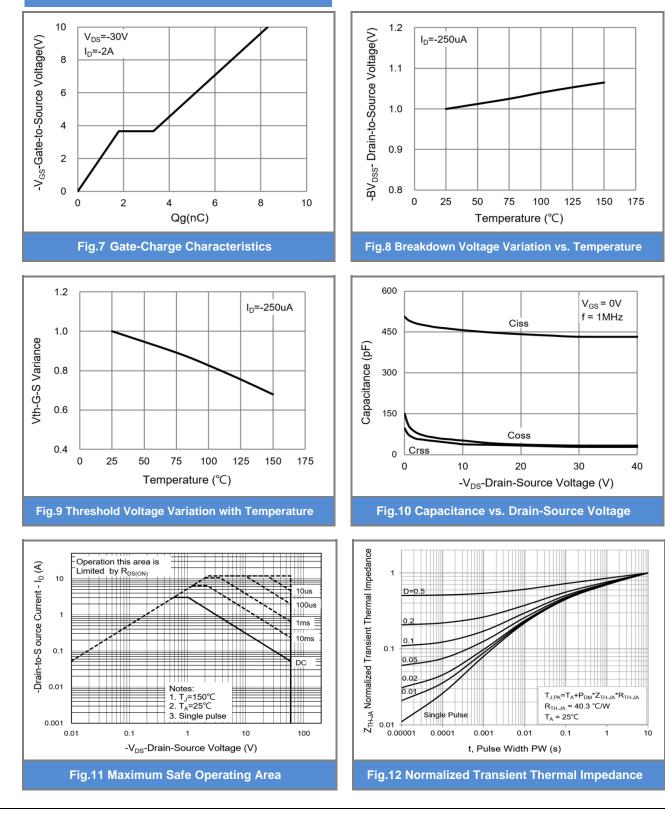




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TYPICAL CHARACTERISTIC CURVES

CONDUCTOR

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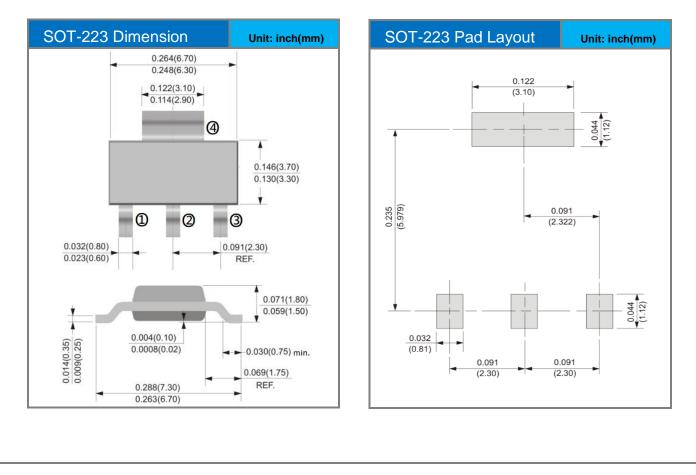


PJW3P06A-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJW3P06A-AU_R2_000A1	SOT-223	2,500pcs / 13" reel	W3P06A	Halogen free

Packaging Information & Mounting Pad Layout





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