PJD11N06A-AU **60V N-Channel Enhancement Mode MOSFET** 60 V Current 11 A Voltage Features R_{DS(ON)}, V_{GS}@10V, I_D@6A<75mΩ R_{DS(ON)}, V_{GS}@4.5V, I_D@3A<90mΩ TO-252AA High switching speed • Improved dv/dt capability • Low Gate Charge Drain • Low reverse transfer capacitance 0 • AEC-Q101 qualified Lead free in compliance with EU RoHS 2.0 Œ Gate • Green molding compound as per IEC 61249 standard **Mechanical Data** Source • Case : TO-252AA Package • Terminals : Solderable per MIL-STD-750, Method 2026 • Approx. Weight : 0.0104 ounces, 0.297grams

Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS	
Drain-Source Voltage		V _{DS}	60	V	
Gate-Source Voltage		V_{GS}	<u>+</u> 20		
Continuous Drain Current (Note 4)	T _C =25°C	- I _D -	11	A	
	T _c =100°C		7		
Pulsed Drain Current (Note 1)	T _C =25°C	I _{DM}	44	1	
Power Dissipation	T _C =25°C	PD	30	\\/	
	T _c =100°C		15	W	
Continuous Drain Current (Note 4)	T _A =25°C	I _D	3.7	^	
	T _A =70°C		2.9	A	
Power Dissipation	T _A =25°C	PD	2.4	w	
	T _A =70°C		1.6		
Single Pulse Avalanche Energy (Note 6)		E _{AS}	25	mJ	
Operating Junction and Storage Temperature Range		T_J,T_STG	-55~175	°C	
Typical Thermal Resistance (Note 4,5)	Junction to Case	$R_{ extsf{ heta}JC}$	5	°C/W	
	Junction to Ambient	$R_{ extsf{ heta}JA}$	62.5		

• Limited only By Maximum Junction Temperature



PJD11N06A-AU

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

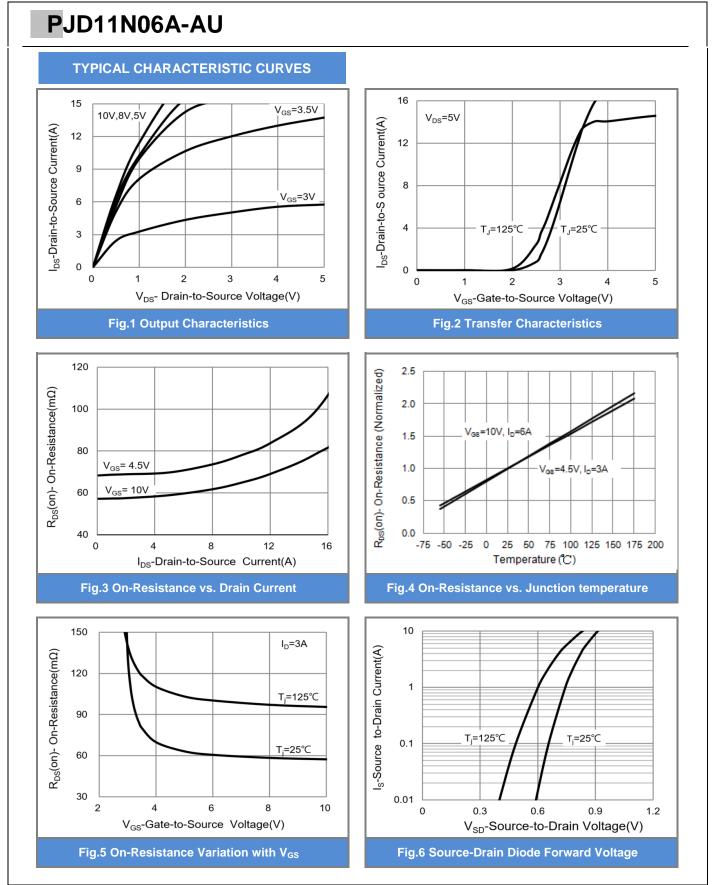
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	BV_{DSS}	V _{GS} =0V, I _D =250uA	60	-	-	V
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250uA	1	1.8	2.5	
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =10V, I _D =6A	-	53	75	mΩ
		V _{GS} =4.5V, I _D =3A	-	61	90	
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 6)		·				
Total Gate Charge	Qg	V _{DS} =48V, I _D =6A, V _{GS} =10V ^(Note 1,2)	-	9.3	-	nC
Gate-Source Charge	Q _{gs}		-	2.2	-	
Gate-Drain Charge	Q _{gd}		-	1.9	-	
Input Capacitance	Ciss	V _{DS} =15V, V _{GS} =0V, f=1MHZ	-	509	-	pF
Output Capacitance	Coss		-	47	-	
Reverse Transfer Capacitance	Crss		-	23	-	
Turn-On Delay Time	td _(on)	V_{DD} =30V, I_{D} =1A, V_{GS} =10V, R_{G} =3.3 Ω ^(Note 1,2)	-	3.2	-	ns
Turn-On Rise Time	tr		-	9.7	-	
Turn-Off Delay Time	td _(off)		-	18.5	-	
Turn-Off Fall Time	t _f	$R_{G}=3.3\Omega$	-	6.4	-	
Drain-Source Diode		·		<u> </u>	·	·
Maximum Continuous Drain-Source			-	-	11	A
Diode Forward Current	I _S					
Diode Forward Voltage	V_{SD}	I _S =1A, V _{GS} =0V	-	0.75	1	V

NOTES :

- 1. Pulse width
- 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.

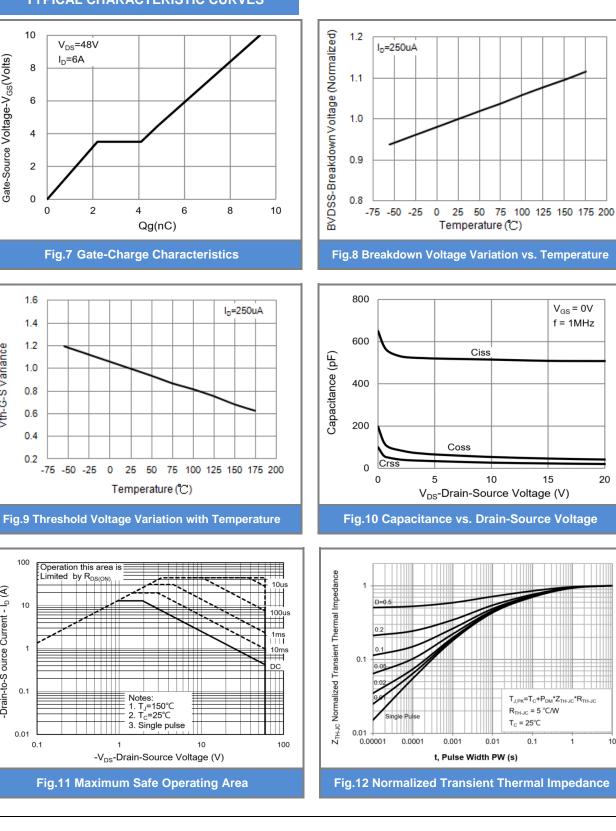
March 28,2019-REV.00

Downloaded From Oneyac.com





March 28,2019-REV.00



PJD11N06A-AU

TYPICAL CHARACTERISTIC CURVES



Gate-Source Voltage-V_{GS}(Volts)

Vth-G-S Variance

-Drain-to-S ource Current - I_D (A)



 $V_{GS} = 0V$

f = 1MHz

20

15



10

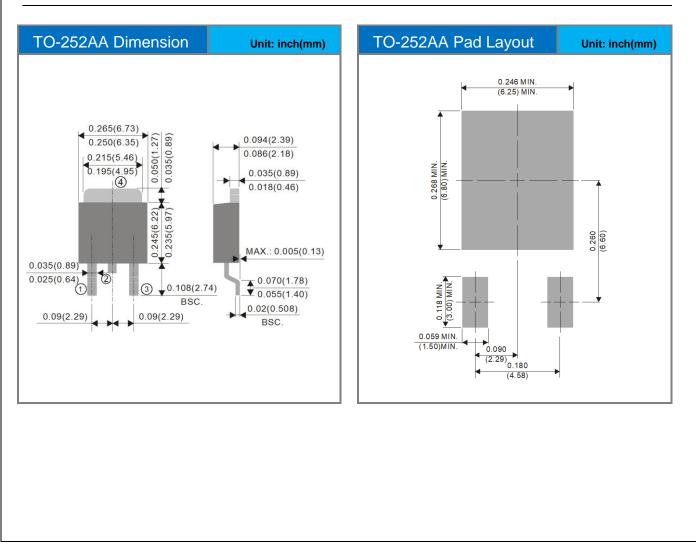


PJD11N06A-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type Marking		Version	
PJD11N06A-AU_L2_000A1	TO-252AA	3,000pcs / 13" reel	D11N06A	Halogen free	

Packaging Information & Mounting Pad Layout





PJD11N06A-AU

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.



单击下面可查看定价,库存,交付和生命周期等信息

>>Panjit(强茂)