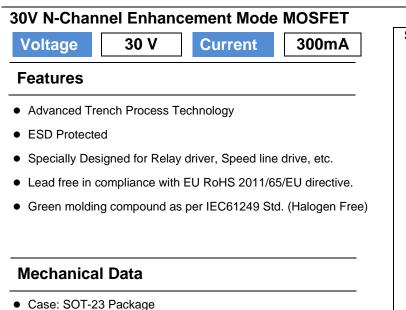
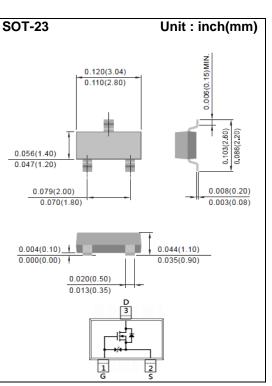


PJA3428



• Terminals : Solderable per MIL-STD-750, Method 2026



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> 10	V	
Continuous Drain Current		lь	300	mA
Pulsed Drain Current		Ідм	600	mA
Power Dissipation	T _A =25°C	PD	500	mW
	Derate above 25°C		4	mW/∘C
Operating Junction and Storage Temperature Range		TJ,Tsтg	-55~150	°C
Typical Thermal Resistance - Junction to Ambient ^(Note 3)		R _{θJA}	250	°C/W



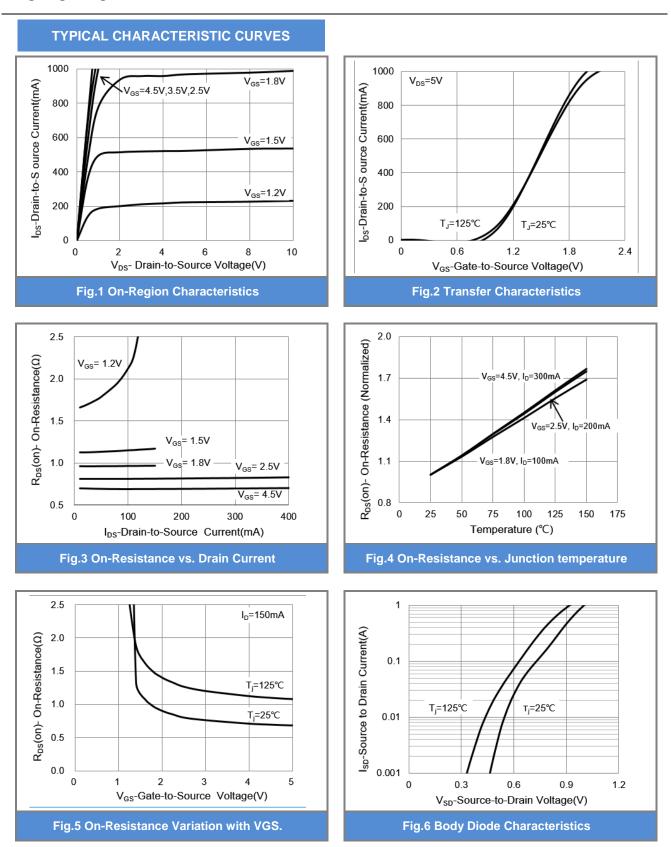
Electrical Characteristics (T_A=25°C unless otherwise noted)

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	0.75	1.0	V	
Drain-Source On-State Resistance	RDS(on)	V _{GS} =4.5V,I _D =300mA	-	0.7	1.2	Ω	
		V _{GS} =2.5V,I _D =200mA	-	0.8	1.6		
		Vgs=1.8V,Id=100mA	-	0.9	2.0		
		V_{GS} =1.5V,I _D =50mA	-	1.1	3.0		
		V _{GS} =1.2V,I _D =20mA	-	1.5	4.0		
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =24V,V _{GS} =0V	-	-	1	uA	
Gate-Source Leakage Current	lgss	V _{GS} = <u>+</u> 8V,V _{DS} =0V	-	-	<u>+</u> 10	uA	
Dynamic (Note 4)							
Total Gate Charge	Qg		-	0.9	-	nC	
Gate-Source Charge	Q_gs	V _{DS} =10V, I _D =300mA,	-	0.3	-		
Gate-Drain Charge	Q_gd	V _{GS} =4.5V	-	0.2	-		
Input Capacitance	Ciss		-	45	-		
Output Capacitance	Coss	V _{DS} =10V, V _{GS} =0V,	-	14	-	pF	
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	0.8	-		
Turn-On Delay Time	td _(on)		-	8.3	-		
Turn-On Rise Time	tr	V _{DD} =10V, I _D =300mA,	-	5.7	-	ns	
Turn-Off Delay Time	td _(off)	V _{GS} =4V, R _G =10Ω ^(Note 1,2)	-	35	-		
Turn-Off Fall Time	tf	$RG=10\Omega$ (Note 1,2)	-	12	-		
Drain-Source Diode							
Maximum Continuous Drain-Source Diode Forward Current	ls		-	-	300	mA	
Diode Forward Voltage	V _{SD}	Is=300mA, V _{GS} =0V	-	0.9	1.3	V	

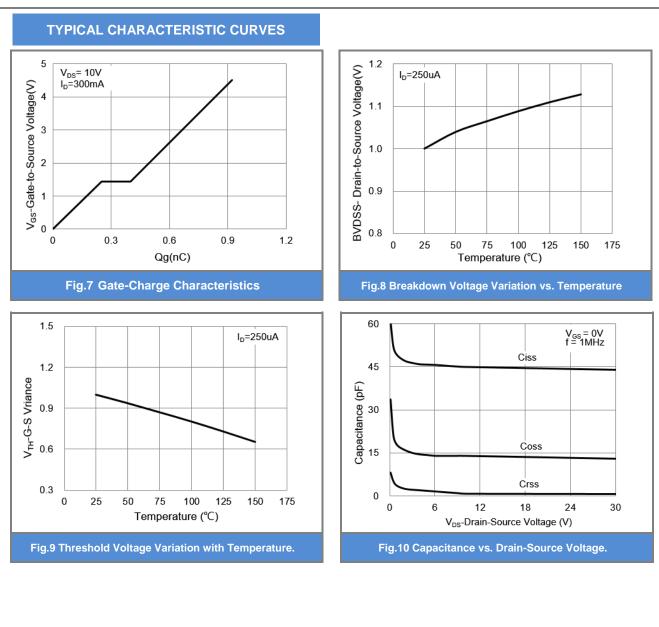
NOTES:

- 1. Pulse width
- 2. Essentially independent of operating temperature typical characteristics.
- 3. R_{®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 inch square pad of copper
- 4. Guaranteed by design, not subject to production testing







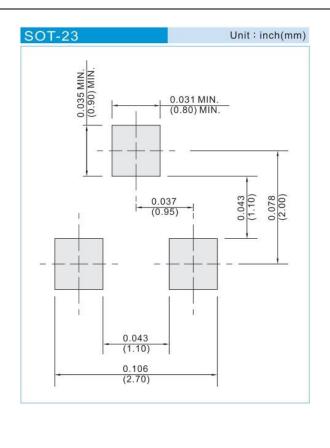




Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
PJA3428	SOT-23	3K pcs / 7" reel	A28	
PJA3428	SOT-23	12K pcs / 13" reel	A28	

Mounting Pad Layout





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 requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, 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.