ΡΛΝ	ĴΤ
	SEMI CONDUCTOR

30V P-Channel Enhancement Mode MOSFET



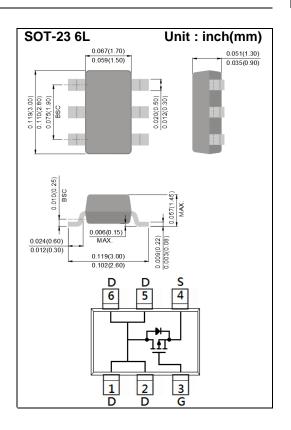
Features

Voltage

- R_{DS(ON)}, V_{GS}@-10V, I_D@-4A<32mΩ
- $R_{DS(ON)}, V_{GS}@-4.5V, I_D@-2A<46m\Omega$
- Advanced Trench Process Technology
- Specially Designed for Switch Load, PWM Application, etc
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : SOT-23 6L Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0005 ounces, 0.014 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> 20		
Continuous Drain Current(Note 4)	١D	-6.4		
Pulsed Drain Current ^(Note 1,3)	ldм	-46	A	
Power Dissipation	T₂=25°C	PD	2	W
	Derate above 25°C		16	mW/°C
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	°C
Typical Thermal Resistance - Junction to Ambient ^(Note 5)		R _{θJA}	62.5	°C/W

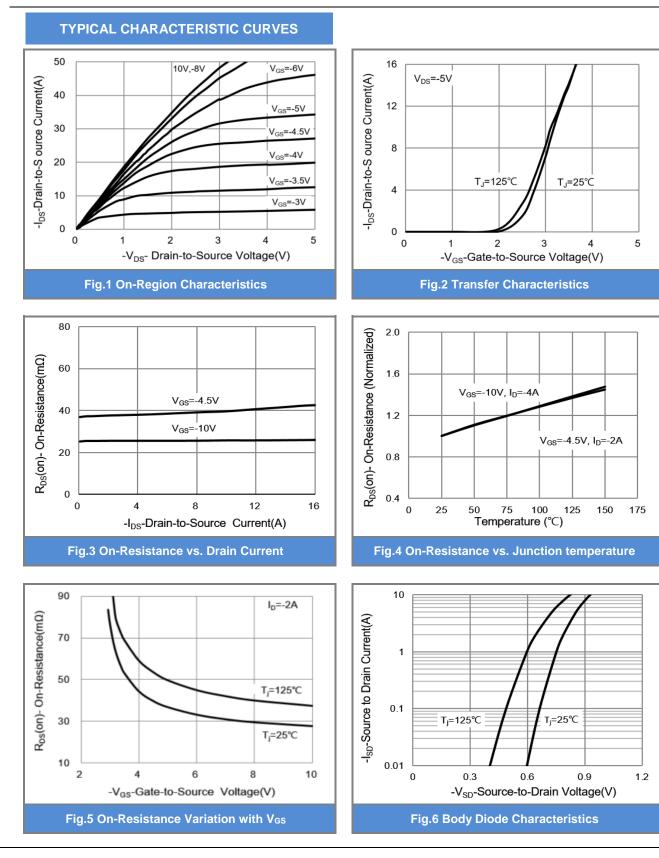


PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =-250uA	-30	-	-	- V 2.5
Gate Threshold Voltage	$V_{GS(th)}$	V _{DS} =V _{GS} , I _D =-250uA	-1	-1.6	-2.5	
		V _{GS} =-10V, I _D =-4A	-	27	32	mΩ
Drain-Source On-State Resistance	RDS(on)	V _{GS} =-4.5V, I _D =-2A	-	38	46	
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> 20V, V _{DS} =0V	-	-	<u>+</u> 100	nA
Dynamic ^(Note 6)						
Total Gate Charge	Qg		-	7.8	-	
Gate-Source Charge	Q _{gs}	V _{DS} =-15V, I _D =-5A, V _{GS} =-4.5V ^(Note 2,3)	-	2.7	-	nC
Gate-Drain Charge	Q_{gd}		-	2.8	-	
Input Capacitance	Ciss	V _{DS} =-15V, V _{GS} =0V, f=1MHZ	-	870	-	
Output Capacitance	Coss		-	130	-	pF
Reverse Transfer Capacitance	Crss		-	93	-	
Turn-On Delay Time	td _(on)	V_{DD} =-15V, I _D =-1A, V _{GS} =-10V, R _G =6 $\Omega^{(Note 2,3)}$	-	6.5	-	
Turn-On Rise Time	tr		-	8.8	-	
Turn-Off Delay Time	td _(off)		-	73	-	ns
Turn-Off Fall Time	tf	KG=012(1000 2,0)	-	44	-	
Drain-Source Diode						
Maximum Continuous Drain-Source					-2	А
Diode Forward Current	ls		-	-	-2	A
Diode Forward Voltage	V_{SD}	I _S =-1A, V _{GS} =0V		-0.75	-1	V

NOTES :

- 1. Pulse width</br>200us, Duty cycle2%.
- 2. Essentially independent of operating temperature typical characteristics.
- 3. 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_{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 inch² with 2oz.square pad of copper.
- 6. Guaranteed by design, not subject to production testing







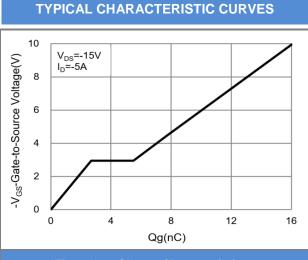
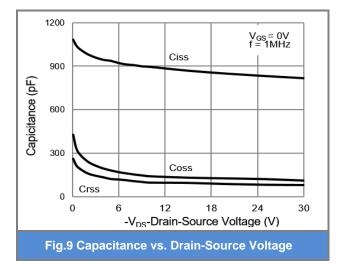
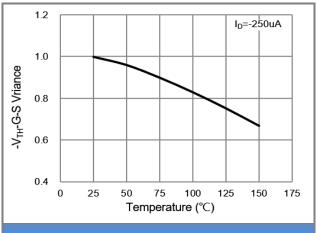


Fig.7 Gate-Charge Characteristics





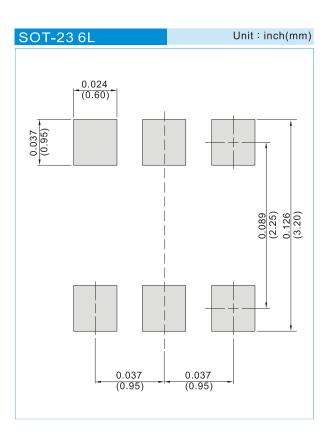




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PJS6403_S1_00001	SOT-23 6L	3K pcs / 7" reel	S03	Halogen free RoHS compliant

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.

单击下面可查看定价,库存,交付和生命周期等信息

>>Panjit(强茂)