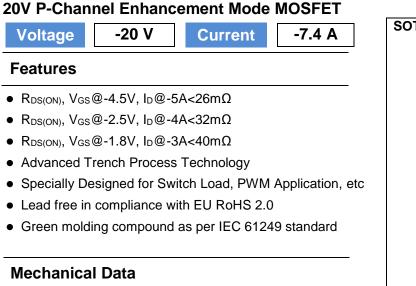
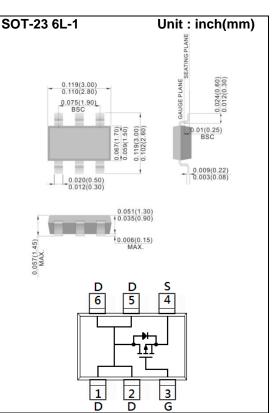
ΡΛΝ	ĴΪΤ		
	SEMI CONDUCTOR		



- Case : SOT-23 6L-1 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}	-20			
Gate-Source Voltage	V _{GS}	<u>+</u> 10	V		
Continuous Drain Current ^(Note 4)	lь	-7.4	A		
Pulsed Drain Current ^(Note 1)		I _{DM}			-29.6
Power Dissipation	Ta=25⁰C	PD	2	W	
	Derate above 25°C		16	mW/ºC	
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	٥C	
Typical Thermal Resistance - Junction to Ambient ^(Note 3,4)		R _{θJA}	62.5	°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	-20	-		
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250uA	-0.3	-0.55	-1	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =-4.5V, I _D =-5A	-	21	26	mΩ
		V _{GS} =-2.5V, I _D =-4A	-	26	32	
		V _{GS} =-1.8V, I _D =-3A	-	32	40	
Zero Gate Voltage Drain Current	IDSS	V _{DS} =-20V, V _{GS} =0V	-	-	-1	uA
Gate-Source Leakage Current	lgss	V _{GS} = <u>+</u> 10V, V _{DS} =0V	-	-	<u>+</u> 100	nA
Dynamic ^(Note 5)				_		
Total Gate Charge	Qg	V _{DS} =-10V, I _D =-5A, V _{GS} =-4.5V ^(Note 1,2)	-	16.5	-	nC
Gate-Source Charge	Q _{gs}		-	2.6	-	
Gate-Drain Charge	Q _{gd}		-	3.1	-	
Input Capacitance	Ciss	V _{DS} =-15V, V _{GS} =0V, f=1MHZ	-	1620	-	pF
Output Capacitance	Coss		-	220	-	
Reverse Transfer Capacitance	Crss		-	160	-	
Turn-On Delay Time	td _(on)		-	22	-	
Turn-On Rise Time	tr	V_{DD} =-10V, I _D =-1A, V _{GS} =-4.5V, R _G =25Ω ^(Note 1,2)	-	25	-	
Turn-Off Delay Time	td _(off)		-	138	-	ns
Turn-Off Fall Time	tf	RG=2002((1000-1),2)	-	53	-	
Drain-Source Diode						
Maximum Continuous Drain-Source	Is		-	-	-2	А
Diode Forward Current	-0					
Diode Forward Voltage	V _{SD}	I _S =-1A, V _{GS} =0V	-	-0.7	-1	V

NOTES :

- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. R_{0JA} 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.



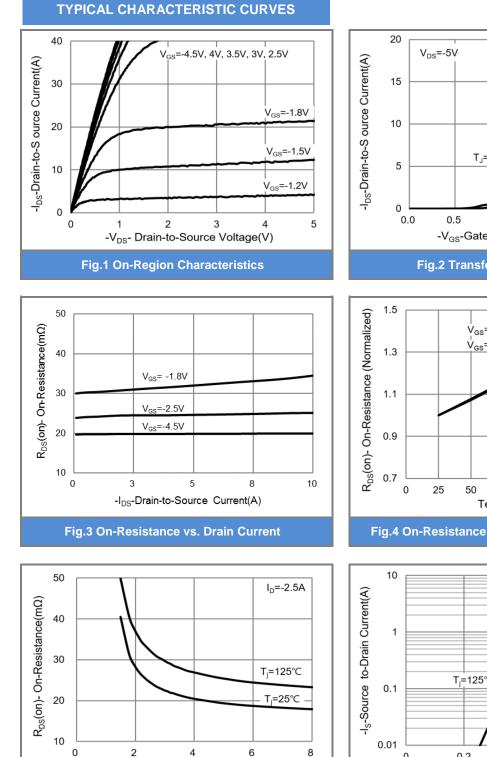


Fig.5 On-Resistance Variation with V_{GS}

-V_{GS}-Gate-to-Source Voltage(V)

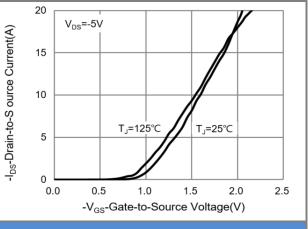


Fig.2 Transfer Characteristics

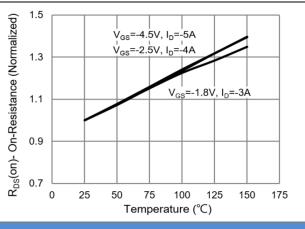
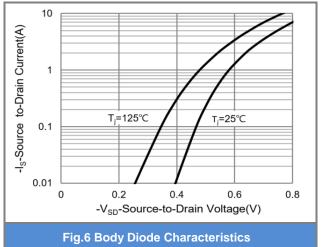
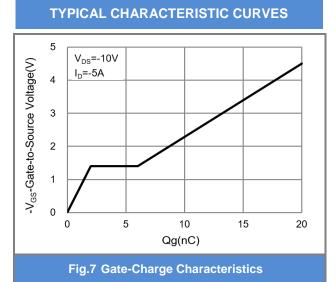


Fig.4 On-Resistance vs. Junction temperature







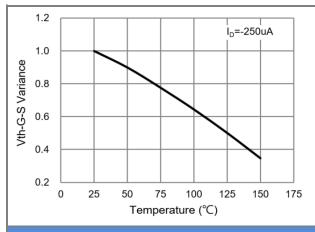
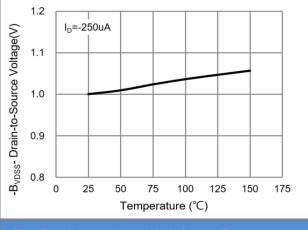


Fig.9 Threshold Voltage Variation with Temperature





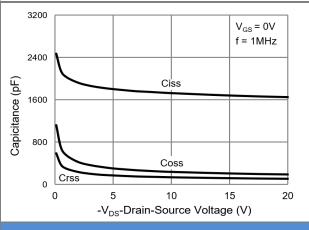


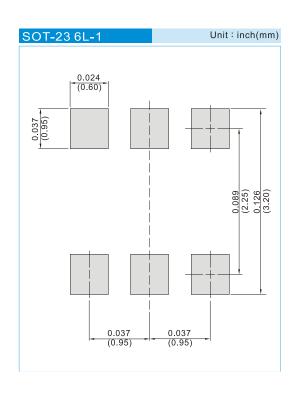
Fig.10 Capacitance vs. Drain-Source Voltage



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PJS6421_S1_00001	SOT-23 6L-1	3K pcs / 7" reel	S21	Halogen free RoHS compliant

Mounting Pad Layout







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