PJS6415A		
20V P-Channel Enhancement Mode MOSFET		
Voltage -20 V Current -5.2A	SOT-23 6L	Unit : inch(mn . 0.051(1.30
Features	0.059(1.50)	0.035(0.90
 RDS(ON) , VGS@-4.5V, ID@-5.2A<46mΩ 	0.118(3.00) 0.110(2.80) 0.075(1.90) BSC	0.012(0.30)
 RDS(ON) , VGS@-2.5V, ID@-3.0A<56mΩ 	0.118 0.075 B	0.012
 RDS(ON) , VGS@-1.8V, ID@-1.5A<88mΩ 		
Advanced Trench Process Technology		
• Specially Designed for Switch Load, PWM Application, etc	010(0.25) BSC	
 Lead free in compliance with EU RoHS 2.0 		0.057(1.45) MAX.
Green molding compound as per IEC 61249 standard	0.024(0.60) 0.012(0.30)	0.22)
Mechanical Data	0.119(3.00) 0.102(2.60)	0.003(0.08)
Case: SOT-23 6L Package	D 6	D S 5 4
• 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	V
Gate-Source Voltage		V _{GS}	<u>+</u> 12	V
Continuous Drain Current		ID	-5.2	А
Pulsed Drain Current		I _{DM}	-20.8	А
Power Dissipation	T _a =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 3)		R _{θJA}	62.5	°C/W



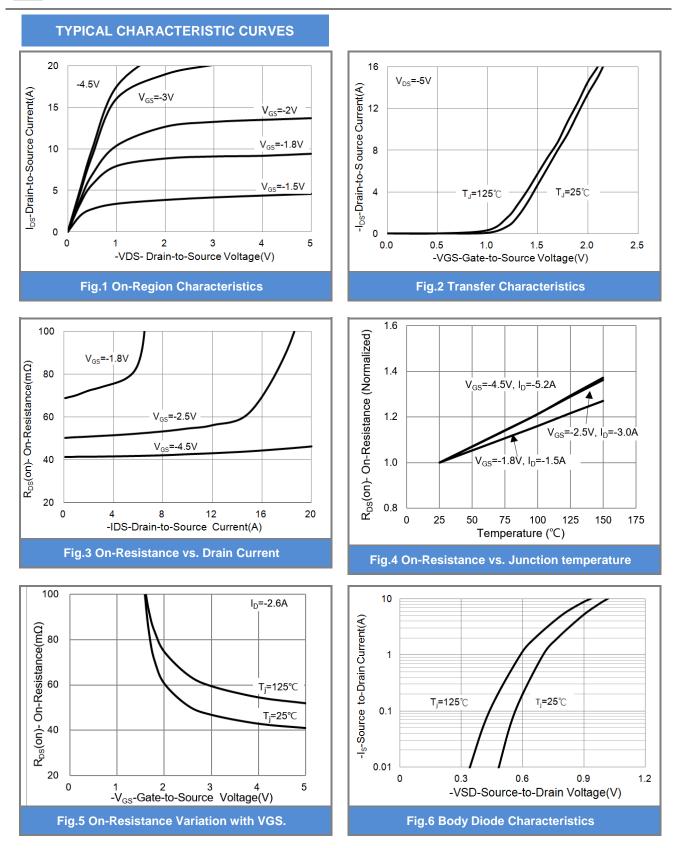
Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =-250uA	-20	-	-	V
Gate Threshold Voltage	$V_{GS(th)}$	V _{DS} =V _{GS} , I _D =-250uA	-0.5	-0.74	-1.3	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =-4.5V, I _D =-5.2A	-	38	46	mΩ
		V_{GS} =-2.5V, I _D =-3.0A	-	47	56	
		V _{GS} =-1.8V, I _D =-1.5A	-	68	88	
Zero Gate Voltage Drain Current	IDSS	V _{DS} =-16V, V _{GS} =0V	-	-	-1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 12V, V _{DS} =0V	-	-	<u>+</u> 100	nA
Dynamic				-		
Total Gate Charge	Q_{g}		-	10	-	nC
Gate-Source Charge	Q_{gs}	V _{DS} =-10V, I _D =-5.2A, V _{GS} =-4.5V ^(Note 1,2)	-	1.7	-	
Gate-Drain Charge	Q_{gd}		-	2.4	-	
Input Capacitance	Ciss	V _{DS} =-10V, V _{GS} =0V,	-	980	-	
Output Capacitance	Coss		-	100	-	pF
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	81	-	
Switching						
Turn-On Delay Time	td _(on)		-	9.8	-	
Turn-On Rise Time	tr	V _{DD} =-10V, I _D =-5.2A,	-	54	-	
Turn-Off Delay Time	td _(off)	V _{GS} =-4.5V,	-	44	-	ns
Turn-Off Fall Time	tf	$R_G=6\Omega^{(Note 1,2)}$	-	31	-	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	ls		-	-	-2.0	A
Diode Forward Voltage	V _{SD}	I _S =-1.0A, V _{GS} =0V	-	-0.78	-1.2	V

NOTES :

- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. Reja 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







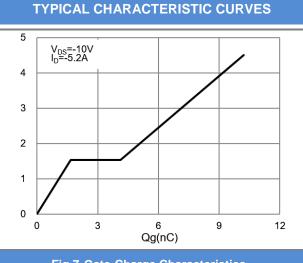


Fig.7 Gate-Charge Characteristics

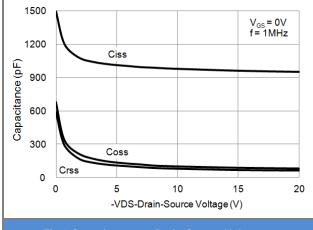
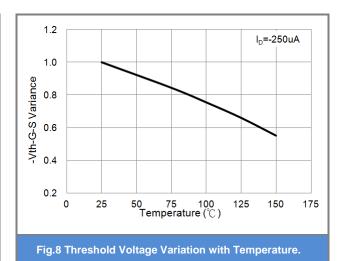


Fig.9 Capacitance vs. Drain-Source Voltage.

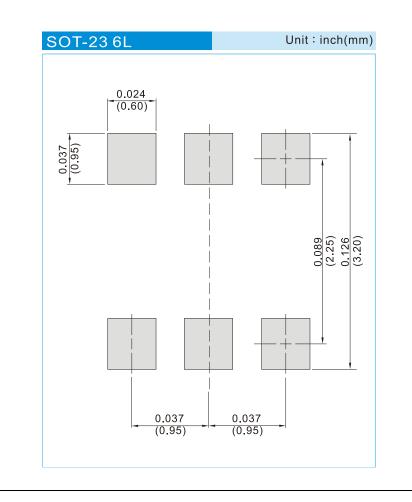




PART NO. PACKING CODE VERSION

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PJS6415A_S1_00001	SOT-23 6L	3K pcs / 7" reel	S5A	Halogen free RoHS compliant
PJS6415A_S2_00001	SOT-23 6L	10K pcs / 13" reel	S5A	Halogen free RoHS compliant

MOUNTING PAD LAYOUT





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