PJS6815	
20V P-Channel Enhancement Mode MOSFET	
Voltage -20 V Current -3.6A	SOT-23 6L
Features	0.059(1.50)
 RDS(ON) , VGS@-4.5V, ID@-3.6A<57mΩ 	0.119(3.00) 0.075(1.20) BSC 0.020(0.50) 0.022(0.50) 0.012(0.30)
 RDS(ON) , VGS@-2.5V, ID@-2.8A<70mΩ 	0.119(3.0 0.075(1.1) BSC 0.020(0.6
 RDS(ON), VGS@-1.8V, ID@-2.1A<95mΩ 	,
 Advanced Trench Process Technology 	52)
 Specially Designed for Switch Load, PWM Application, etc. 	BSC 1010(0.25)
 Lead free in compliance with EU RoHS 2.0 	
Green molding compound as per IEC 61249 standard	0.024(0.60) 0.012(0.30) 0.012(0.30)
Mechanical Data	0.119(3.00)
Case: SOT-23 6L Package	D1 S1 [6] 5]
 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	ΙD	-3.6	А	
Pulsed Drain Current		I _{DM}	-14.4	А
Power Dissipation	T₂=25°C	PD	1.25	W
	Derate above 25°C		10	mW/ºC
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	٥C
Typical Thermal Resistance - Junction to Ambient ^(Note 3)	R _{θJA}	100	∘C/W	

F

Unit : inch(mm)

0.057(1.45) MAX.

D2 4

3

G2

1

G1

2

S2

0.051(1.30) 0.035(0.90)



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

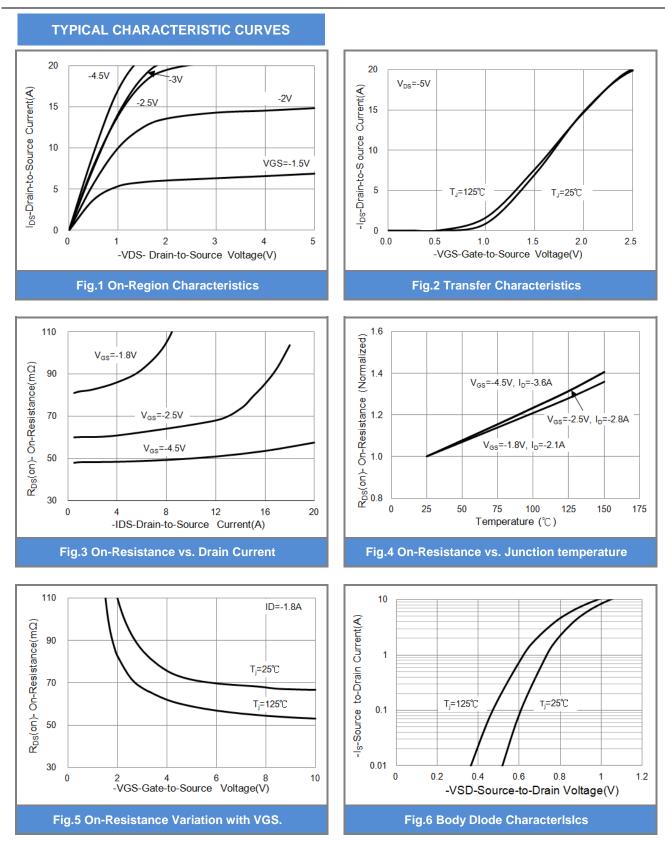
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Static		·	·				
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =-250uA	-20	-	-	V	
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250uA	-0.4	-0.62	-1.2	V	
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =-4.5V, I _D =-3.6A	-	49	57		
		V _{GS} =-2.5V, I _D =-2.8A	-	59	70	mΩ	
		V _{GS} =-1.8V, I _D =-2.1A	-	74	95		
Zero Gate Voltage Drain Current	IDSS	V _{DS} =-20V, V _{GS} =0V	-	-0.01	-1	uA	
Gate-Source Leakage Current	lgss	V _{GS} = <u>+</u> 12V, V _{DS} =0V	-	<u>+</u> 10	<u>+</u> 100	nA	
Dynamic							
Total Gate Charge	Qg	1/ 401/ 1 0.04	-	18	-	nC	
Gate-Source Charge	Q_{gs}	V_{DS} =-10V, I_{D} =-3.6A,	-	2.1	-		
Gate-Drain Charge	Q_{gd}	V _{GS} =-4.5V ^(Note 1,2)	-	7.4	-		
Input Capacitance	Ciss		-	756	-	pF	
Output Capacitance	Coss	V _{DS} =-10V, V _{GS} =0V,	-	75	-		
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	58	-		
Switching							
Turn-On Delay Time	td _(on)		-	5	-		
Turn-On Rise Time	tr	V_{DD} =-10V, I _D =-3.6A,	-	61	-	ns	
Turn-Off Delay Time	td _(off)	$V_{GS}=-4.5V,$	-	70	-		
Turn-Off Fall Time	tf	$R_G=6\Omega^{(Note 1,2)}$	-	137	-		
Drain-Source Diode							
Maximum Continuous Drain-Source	ls				-1.5	А	
Diode Forward Current	IS		-	-	-1.5	А	
Diode Forward Voltage	V _{SD}	Is=-1.0A, V _{GS} =0V	-	0.76	-1.2	V	

NOTES :

- 1. Pulse width</br>
- 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 FR-4 with 2oz. square pad of copper
- 4. The maximum current rating is package limited

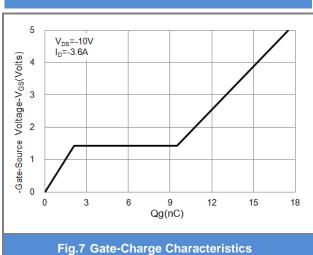


PJS6815





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TYPICAL CHARACTERISTIC CURVES



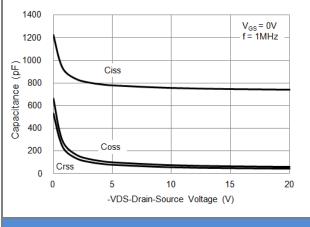


Fig.9 Capacitance vs. Drain-Source Voltage

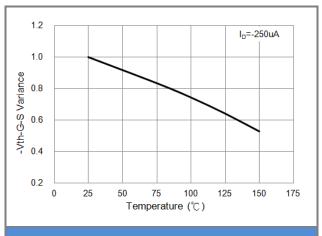


Fig.8 Threshold Voltage Variation with Temperature.

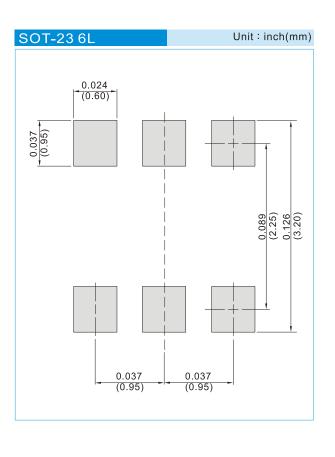


PJS6815

PART NO. PACKING CODE VERSION

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PJS6815_S1_00001	SOT-23 6L	3K pcs / 7" reel	SE5	Halogen free RoHS compliant
PJS6815_S2_00001	SOT-23 6L	10K pcs / 13" reel	SE5	Halogen free RoHS compliant

MOUNTING PAD LAYOUT







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