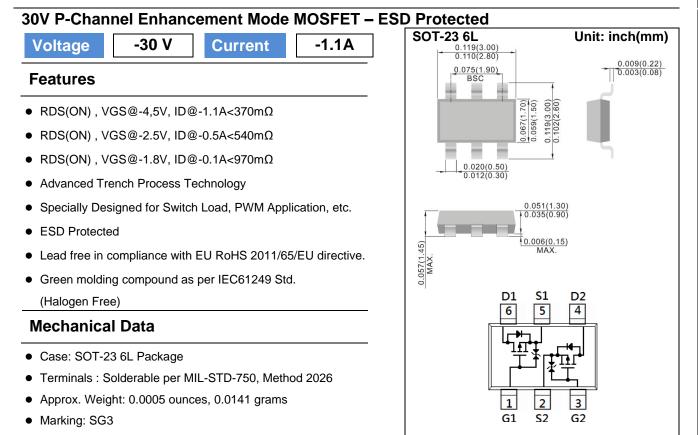
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Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V _{DS}	-30	V
Gate-Source Voltage		V _{GS}	<u>+</u> 8	V
Continuous Drain Current		I _D	-1.1	А
Pulsed Drain Current (Note 4)		I _{DM}	-4.4	А
	T _a =25°C		1.25	W
Power Dissipation	Derate above 25°C	P _D	10	mW/°C
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150	°C
Typical Thermal resistance - Junction to Ambient (Note 3)		$R_{ extsf{ heta}JA}$	100	°C/W



Electrical Characteristics ($T_A=25^{\circ}C$ 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	$V_{GS(th)}$	$V_{DS}=V_{GS}$, $I_{D}=-250$ uA	-0.5	-0.98	-1.3	V
		V _{GS} =-4.5V, I _D =-1.1A	-	293	370	_
Drain-Source On-State Resistance	$R_{DS(on)}$	V _{GS} =-2.5V, I _D =-0.5A	-	387	540	mΩ
		V _{GS} =-1.8V, I _D =-0.1A	-	750	970	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-30V, V _{GS} =0V	-	-0.01	-1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 8V, V _{DS} =0V	-	<u>+</u> 3.4	<u>+</u> 10	uA
Dynamic ^(Note 5)						
Total Gate Charge	Q_{g}		-	1.6	-	nC
Gate-Source Charge	Q_{gs}	V _{DS} =-15V, I _D =-1.1A, V _{GS} =-4.5V ^(Note 1,2)	-	0.5	-	
Gate-Drain Charge	Q_gd	V _{GS} =-4.5V	-	0.3	-	
Input Capacitance	Ciss		-	125	-	pF
Output Capacitance	Coss	V_{DS} =-15V, V_{GS} =0V,	-	22	-	
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	6	-	
Turn-On Delay Time	td _(on)		-	11	-	
Turn-On Rise Time	tr	V_{DD} =-15V, I_{D} =-1.1A, V_{GS} =-4.5V, R_{G} =6 Ω ^(Note 1,2)		51	-	ns
Turn-Off Delay Time	td _(off)			65	-	
Turn-Off Fall Time	tf	R _G =012	-	46	-	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	I _S		-	-	-1.0	A
Diode Forward Voltage	V_{SD}	I _S =-1.0A, V _{GS} =0V		-0.9	-1.2	V

NOTES :

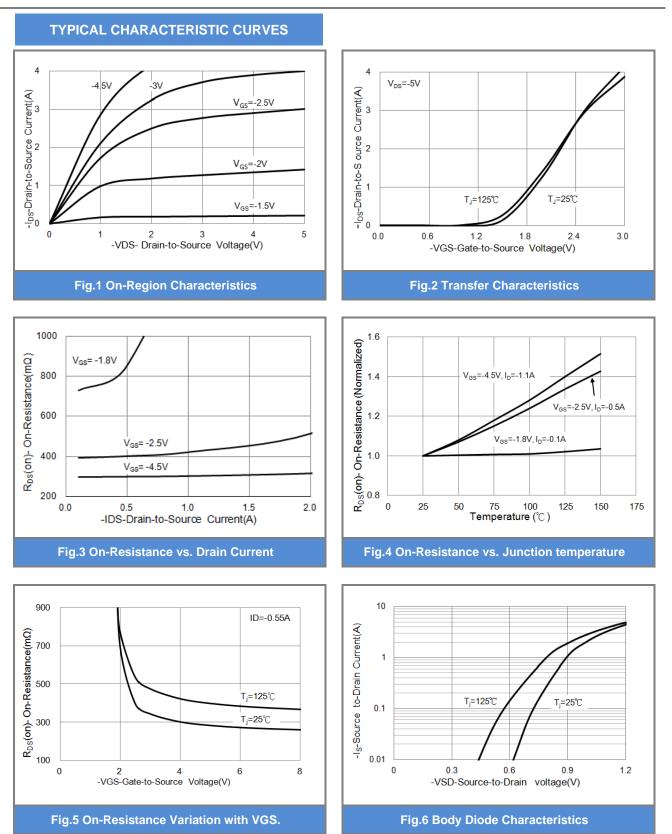
1. Pulse width

2. Essentially independent of operating temperature typical characteristics.

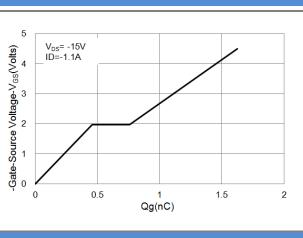
4. The maximum current rating is package limited.

5. Guaranteed by design, not subject to production testing.









TYPICAL CHARACTERISTIC CURVES

Fig.7 Gate-Charge Characteristics

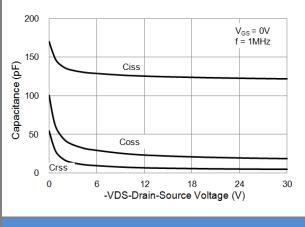
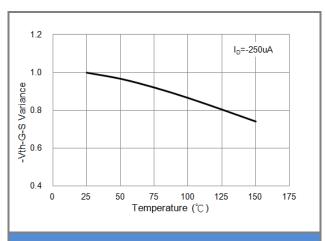


Fig.9 Capacitance vs. Drain-Source Voltage.









PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing type	Marking	Version
PJS6833_S1_00001	SOT-23 6L	3K pcs / 7" reel	SG3	Halogen free
PJS6833_S2_00001	SOT-23 6L	10K pcs / 13" reel	SG3	Halogen free





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