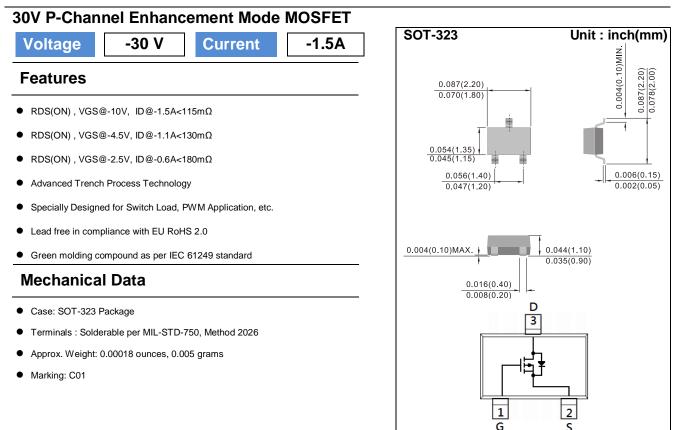
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Maximum Ratings and Thermal Characteristics (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V _{DS}	-30	V
Gate-Source Voltage		V _{GS}	<u>+</u> 12	V
Continuous Drain Current		I _D	-1.5	А
Pulsed Drain Current	I _{DM}	-6	А	
	T _a =25°C	P _D	350	mW
Power Dissipation	Derate above 25°C		2.8	mW/°C
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55~150	°C
Typical Thermal resistance - Junction to Ambient ^(Note 3)		R _{θJA}	357	°C/W



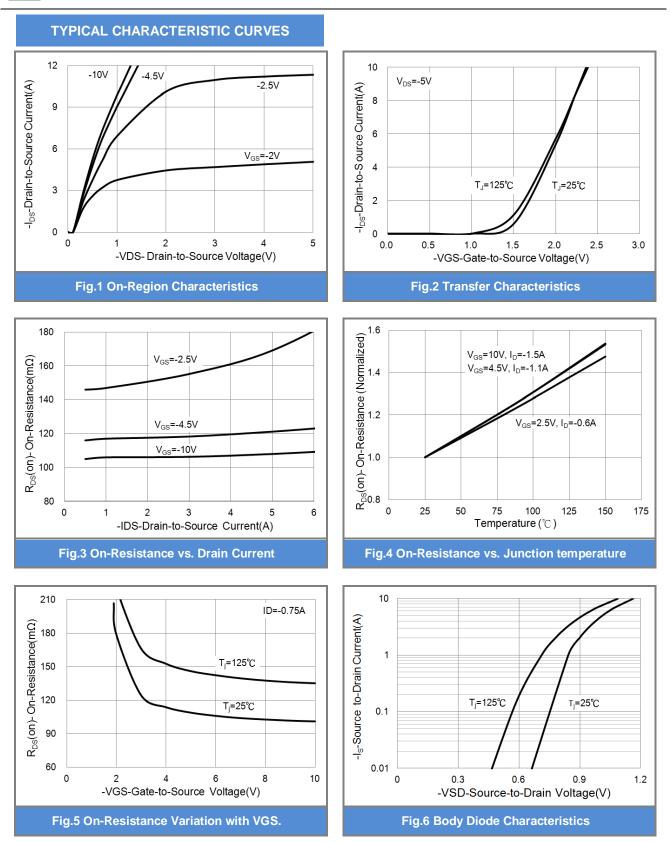
Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static			·			
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS} =0V, I_{D} =-250uA	-30	-	-	V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$, $I_{D}=-250$ uA	-0.5	-0.96	-1.3	V
		V _{GS} =-10V, I _D =-1.5A	-	105	115	
Drain-Source On-State Resistance	$R_{\text{DS(on)}}$	V _{GS} =-4.5V, I _D =-1.1A	-	115	130	mΩ
		V _{GS} =-2.5V, I _D =-0.6A	-	145	180	
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> 12V, V _{DS} =0V	-	<u>+</u> 10	<u>+</u> 100	nA
Dynamic						
Total Gate Charge	Q_{g}		-	11	-	nC
Gate-Source Charge	Q_gs	V _{DS} =-15V, I _D =-1.5A, V _{GS} =-10V ^(Note 1,2)	-	0.85	-	
Gate-Drain Charge	Q_gd	V _{GS} =-10V	-	1.4	-	
Input Capacitance	Ciss		-	443	-	
Output Capacitance	Coss	V _{DS} =-15V, V _{GS} =0V, f=1.0MHZ	-	38	-	pF
Reverse Transfer Capacitance	Crss		-	25	-	
Switching						
Turn-On Delay Time	td _(on)		-	2.5	-	
Turn-On Rise Time	tr	V_{DD} =-15V, I _D =-1.5A, V_{GS} =-10V, R_{G} =6 Ω ^(Note 1.2)	-	32	-	ns
Turn-Off Delay Time	td _(off)		-	161	-	
Turn-Off Fall Time	tf	R _G =612	-	73	-	
Drain-Source Diode						
Maximum Continuous Drain-Source	1				0.5	Δ
Diode Forward Current	I _S		-	-	-0.5	A
Diode Forward Voltage	V_{SD}	I _S =-1A, V _{GS} =0V	-	-0.79	-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







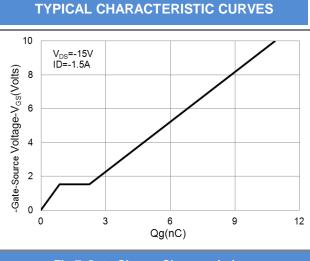
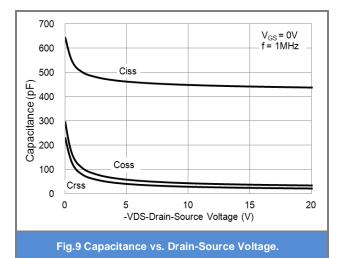
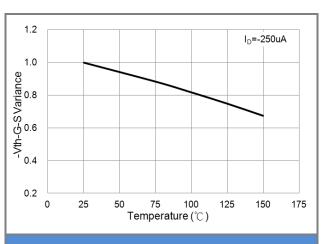


Fig.7 Gate-Charge Characteristics







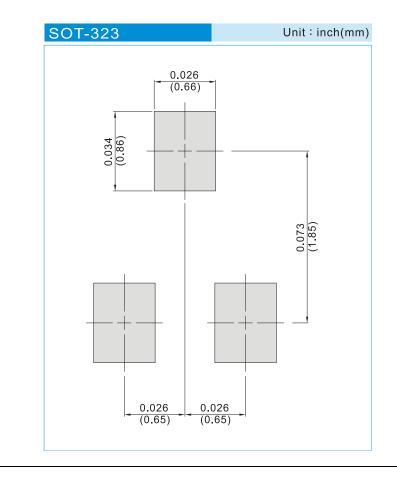




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PJC7401_R1_00001	SOT-323	3K pcs / 7" reel	C01	Halogen free
PJC7401_R2_00001	SOT-323	12K pcs / 13" reel	C01	Halogen free

MOUNTING PAD LAYOUT







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