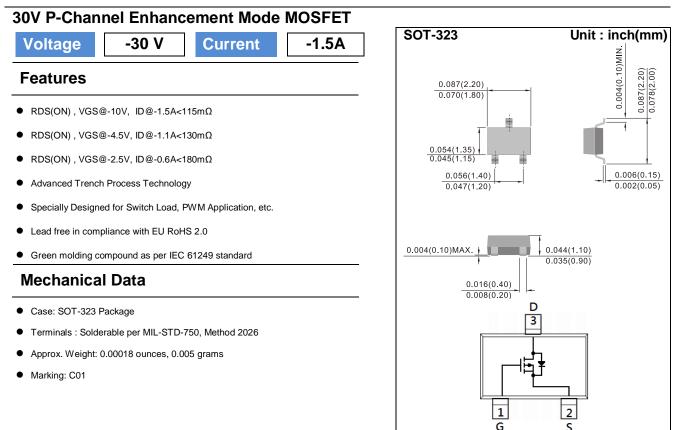
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#### Maximum Ratings and Thermal Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V <sub>DS</sub>	-30	V
Gate-Source Voltage		V <sub>GS</sub>	<u>+</u> 12	V
Continuous Drain Current		I <sub>D</sub>	-1.5	А
Pulsed Drain Current		I <sub>DM</sub>	-6	А
Power Dissipation	T <sub>a</sub> =25°C		350	mW
	Derate above 25°C	P <sub>D</sub>	2.8	mW/°C
Operating Junction and Storag	T <sub>J</sub> ,T <sub>STG</sub>	-55~150	°C	
Typical Thermal resistance - Junction to Ambient <sup>(Note 3</sup>	)	R <sub>θJA</sub>	357	°C/W



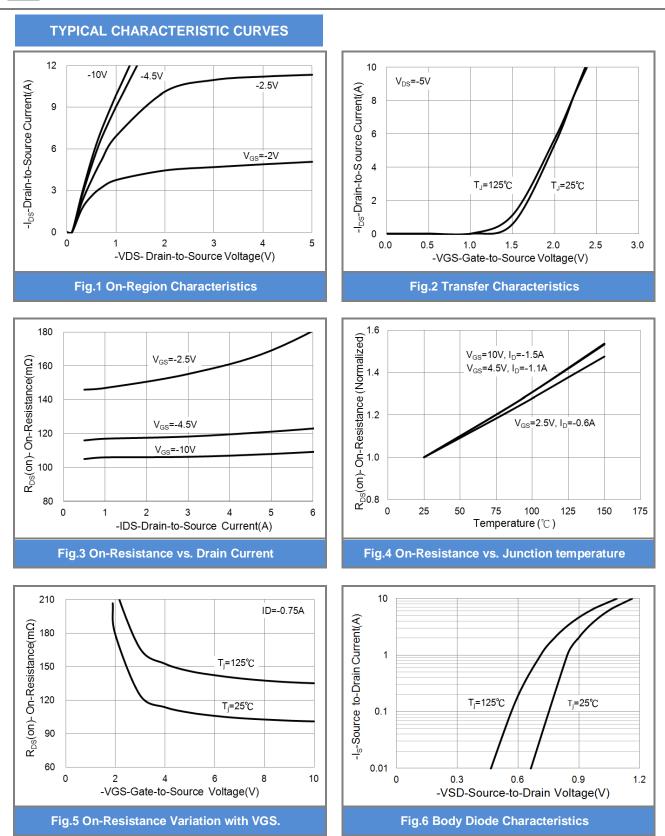
#### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	$BV_{DSS}$	$V_{GS}$ =0V, I <sub>D</sub> =-250uA	-30	-	-	V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ , $I_{D}=-250$ uA	-0.5	-0.96	-1.3	V
Drain-Source On-State Resistance		V <sub>GS</sub> =-10V, I <sub>D</sub> =-1.5A	-	105	115	
	R <sub>DS(on)</sub>	V <sub>GS</sub> =-4.5V, I <sub>D</sub> =-1.1A	-	115	130	mΩ
		V <sub>GS</sub> =-2.5V, I <sub>D</sub> =-0.6A	-	145	180	
Zero Gate Voltage Drain Current	I <sub>DSS</sub>	$V_{DS}$ =-30V, $V_{GS}$ =0V	-	-0.01	-1	uA
Gate-Source Leakage Current	I <sub>GSS</sub>	V <sub>GS</sub> = <u>+</u> 12V, V <sub>DS</sub> =0V	-	<u>+</u> 10	<u>+</u> 100	nA
Dynamic						
Total Gate Charge	$Q_{g}$	V <sub>DS</sub> =-15V, I <sub>D</sub> =-1.5A, V <sub>GS</sub> =-10V <sup>(Note 1,2)</sup>	-	11	-	nC
Gate-Source Charge	$Q_gs$		-	0.85	-	
Gate-Drain Charge	$Q_gd$		-	1.4	-	
Input Capacitance	Ciss		-	443	-	pF
Output Capacitance	Coss	V <sub>DS</sub> =-15V, V <sub>GS</sub> =0V, f=1.0MHZ	-	38	-	
Reverse Transfer Capacitance	Crss		-	25	-	
Switching						
Turn-On Delay Time	td <sub>(on)</sub>		-	2.5	-	ns
Turn-On Rise Time	tr	$V_{DD}$ =-15V, I <sub>D</sub> =-1.5A, $V_{GS}$ =-10V, $R_{G}$ =6 $\Omega$ <sup>(Note 1,2)</sup>	-	32	-	
Turn-Off Delay Time	td <sub>(off)</sub>		-	161	-	
Turn-Off Fall Time	tf	R <sub>G</sub> =612	-	73	-	
Drain-Source Diode						
Maximum Continuous Drain-Source	1				0.5	А
Diode Forward Current	I <sub>S</sub>		-	-	-0.5	
Diode Forward Voltage	$V_{SD}$	I <sub>S</sub> =-1A, V <sub>GS</sub> =0V	-	-0.79	-1.2	V

NOTES:

- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. R<sub>®JA</sub> 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





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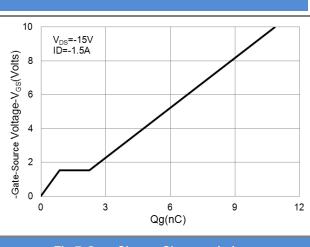
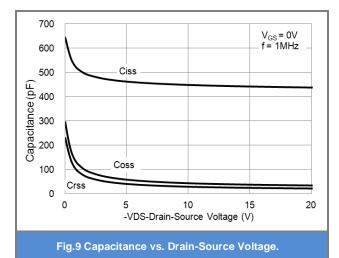
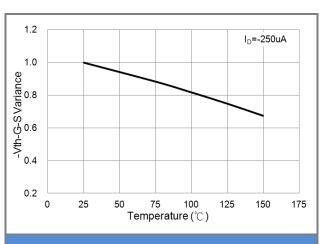


Fig.7 Gate-Charge Characteristics







TYPICAL CHARACTERISTIC CURVES

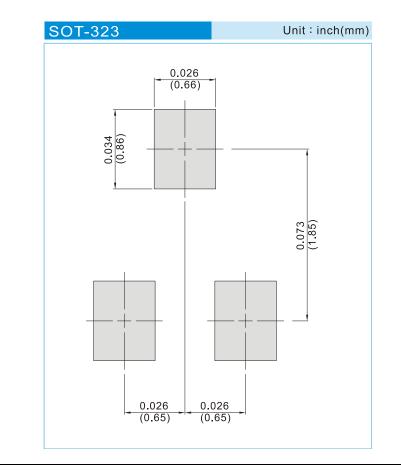




#### PART NO PACKING CODE VERSION

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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