	1 A A A A A A A A A A A A A A A A A A A
ΡΛΝ	JIT
	SEMI
	CONDUCTOR





Current

1.9A

Features

Voltage

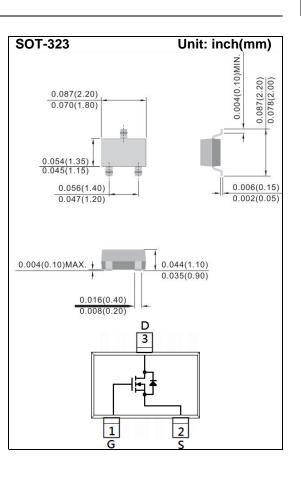
• RDS(ON) , VGS@10V, ID@1.9A<70mΩ

30 V

- RDS(ON), VGS@4.5V, ID@1.6A<75mΩ
- RDS(ON) , VGS@2.5V, ID@1.2A<85mΩ
- RDS(ON) , VGS@1.8V, ID@0.7A<110mΩ
- Advanced Trench Process Technology
- Specially Designed for Switch Load, PWM Application, etc.
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. (Halogen Free)

Mechanical Data

- Case: SOT-323 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00018 ounces, 0.005 grams
- Marking: C00



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> 12	V	
Continuous Drain Current		I _D	1.9	А
Pulsed Drain Current		I _{DM}	7.6	А
Power Dissipation	T _a =25°C	P _D	350	mW
	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}	3)	$R_{ extsf{ heta}JA}$	357	°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	0.4	0.72	1.2	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =10V, I _D =1.9A	-	58	70	mΩ
		V _{GS} =4.5V, I _D =1.6A	-	61	75	
		V _{GS} =2.5V, I _D =1.2A	-	69	85	
		V _{GS} =1.8V, I _D =0.7A	-	80	110	
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	V_{DS} =15V, I _D =1.9A, V_{GS} =10V ^(Note 1,2)	-	4.8	-	nC
Gate-Source Charge	Q_gs		-	0.5	-	
Gate-Drain Charge	Q_{gd}		-	0.7	-	
Input Capacitance	Ciss	V _{DS} =15V, V _{GS} =0V,	-	447	-	pF
Output Capacitance	Coss		-	34	-	
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	22	-	
Switching						
Turn-On Delay Time	td _(on)		-	2	-	
Turn-On Rise Time	tr	V _{DD} =15V, I _D =1.9A, V _{GS} =10V,		38	-	ns
Turn-Off Delay Time	td _(off)			812	-	
Turn-Off Fall Time	tf	$R_G=6\Omega^{(Note 1,2)}$	-	64	-	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	I _S		-	-	0.5	А
Diode Forward Voltage	V _{SD}	I _S =1.0A, V _{GS} =0V		0.77	1.2	V

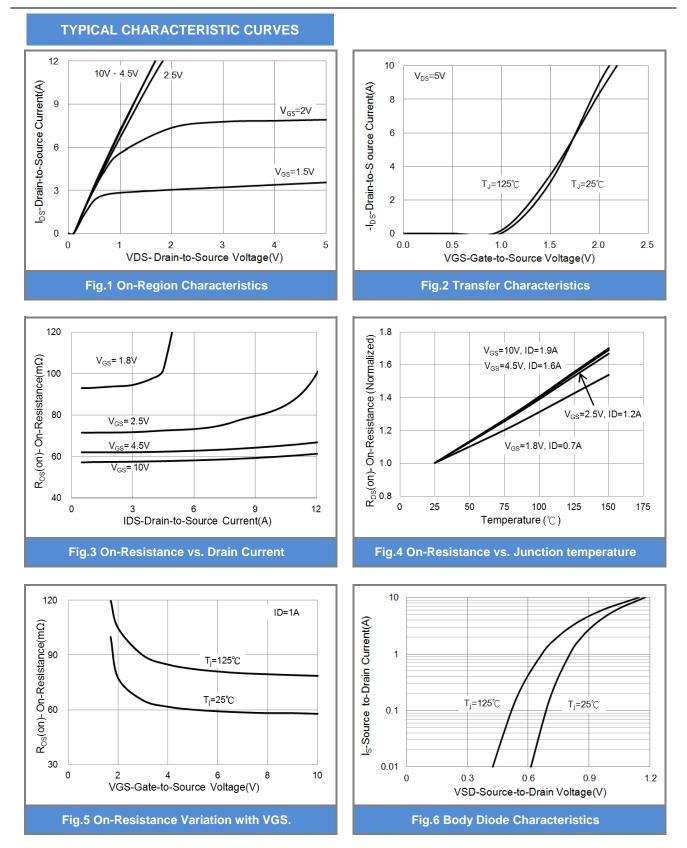
NOTES :

1. Pulse width</br>

2. Essentially independent of operating temperature typical characteristics.

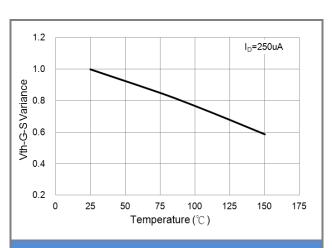
- 3. R_{®JA} is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins mounted on a 1 inch FR-4 with 2oz. square pad of copper
- 4. The maximum current rating is package limited







TYPICAL CHARACTERISTIC CURVES 10 V_{DS}= 15V ID=1.9A Gate-Source Voltage-V_{GS}(Volts) 8 6 4 2 0 0 1 2 3 5 4 Qg(nC) Fig.7 Gate-Charge Characteristics





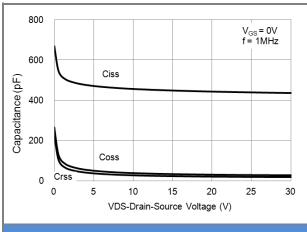


Fig.9 Capacitance vs. Drain-Source Voltage.

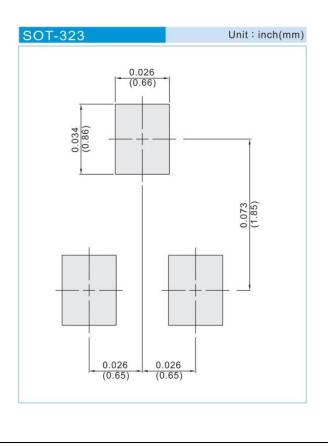




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PJC7400_R1_00001	SOT-323	3K pcs / 7" reel	C00	Halogen free
PJC7400_R2_00001	SOT-323	12K pcs / 13" reel	C00	Halogen free

MOUNTING PAD LAYOUT







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