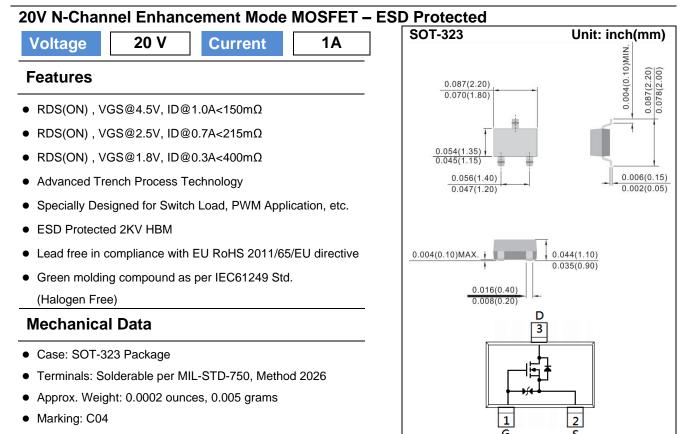
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	SEMI CONDUCTOR

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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}	20	V
Gate-Source Voltage	V _{GS}	<u>+</u> 8	V	
Continuous Drain Current	I _D	1	А	
Pulsed Drain Current (Note 4)		I _{DM}	4	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)		$R_{ extsf{ heta}JA}$	357	°C/W



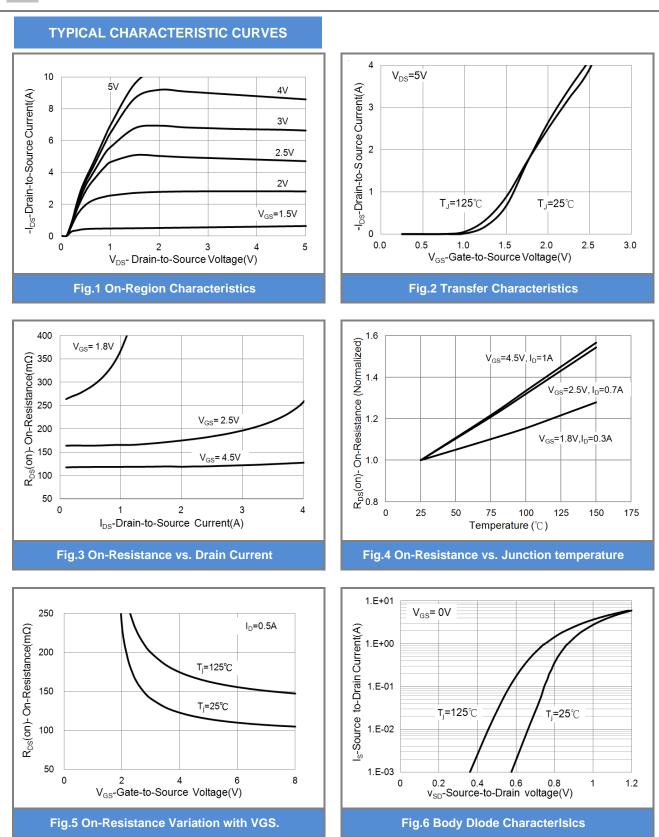
Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static		·				
Drain-Source Breakdown Voltage	BV_{DSS}	V _{GS} =0V, I _D =250uA	20	-	-	V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$, $I_{D}=250$ uA	0.5	0.8	1.0	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =4.5V, I _D =1A	-	114	150	mΩ
		V _{GS} =2.5V, I _D =0.7A	-	160	215	
		V _{GS} =1.8V, I _D =0.3A	-	280	400	
Zero Gate Voltage Drain Current	I _{DSS}	V_{DS} =20V, V_{GS} =0V	-	0.01	1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 8V, V _{DS} =0V	-	<u>+</u> 2	<u>+</u> 10	uA
Dynamic						
Total Gate Charge	Q_{g}	V _{DS} =10V, I _D =1A, V _{GS} =4.5V ^(Note 1,2)	-	1.6	-	nC
Gate-Source Charge	Q_gs		-	0.3	-	
Gate-Drain Charge	Q_gd	V _{GS} =4.5V	-	0.41	-	
Input Capacitance	Ciss		-	92	-	
Output Capacitance	Coss	$V_{DS}=10V, V_{GS}=0V,$	-	25	-	pF
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	9.1	-	
Switching						
Turn-On Delay Time	td _(on)		-	5.8	-	
Turn-On Rise Time	tr	$V_{DD}=10V, I_D=1A,$	-	25.7	-	ns
Turn-Off Delay Time	td _(off)	V_{GS} =4.5V,	-	41	-	
Turn-Off Fall Time	tf	$R_G=6\Omega^{(Note 1,2)}$	-	31	-	
Drain-Source Diode						
Maximum Continuous Drain-Source	I _S		-	-	1	А
Diode Forward Current	-3					
Diode Forward Voltage	V_{SD}	I _S =1A, V _{GS} =0V	-	0.85	1.2	V

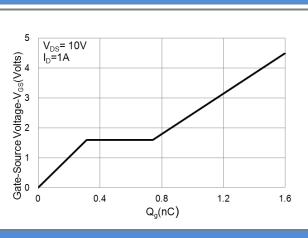
NOTES :

- 1. Pulse width<u><</u>300us, Duty cycle<u><</u>2%.
- 2. Essentially independent of operating temperature typical characteristics.
- 3. RoJA 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

Fig.7 Gate-Charge Characteristics

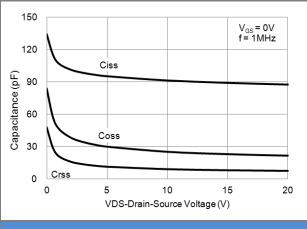


Fig.9 Capacitance vs. Drain-Source Voltage.

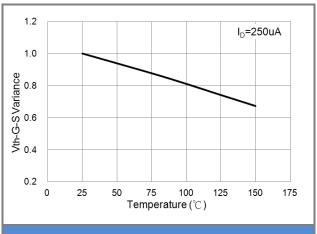


Fig.8 Threshold Voltage Variation with Temperature.

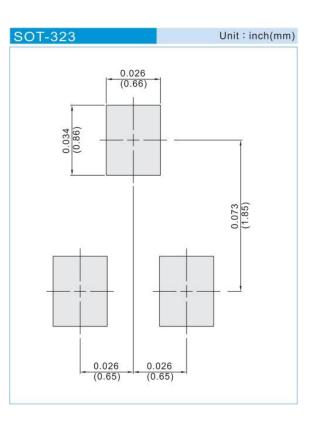




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PJC7404_R1_00001	SOT-323	3K pcs / 7" reel	C04	Halogen free
PJC7404_R2_00001	SOT-323	12K pcs / 13" reel	C04	Halogen free

MOUNTING PAD LAYOUT







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