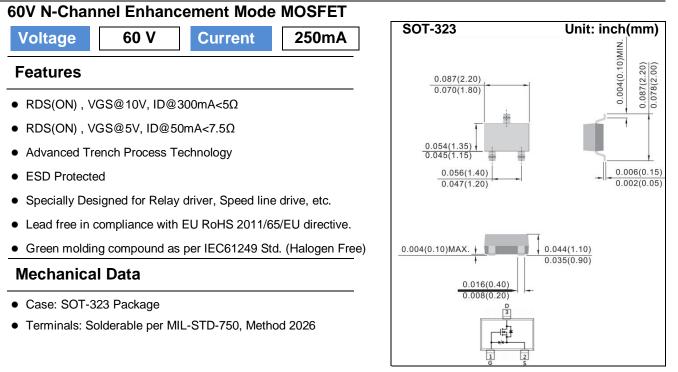
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	SEMI CONDUCTOR



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

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V _{DS}	60	V
Gate-Source Voltage	V _{GS}	<u>+</u> 20	V	
Continuous Drain Current		I _D	250	mA
Pulsed Drain Current		I _{DM}	1000	mA
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 _{eja}	357	°C/W



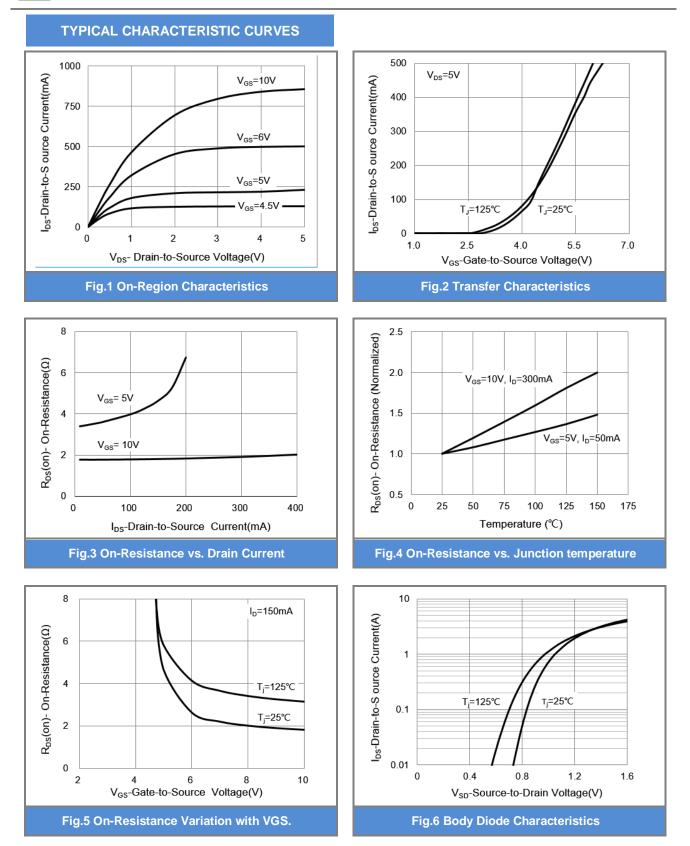
Electrical Characteristics (T_A=25°C unless otherwise noted)

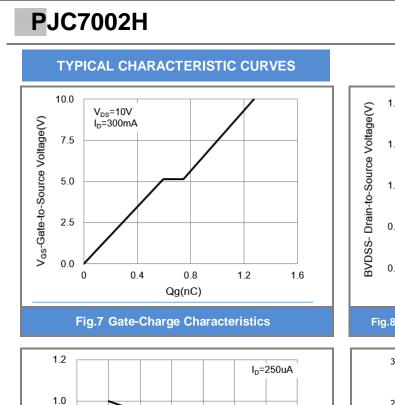
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	BV_{DSS}	V _{GS} =0V,I _D =250uA	60	-	-	V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$, $I_{D}=250$ uA	2.0	2.49	3.0	V
Drain-Source On-State Resistance		V _{GS} =10V,I _D =300mA	-	2.0	5	
	$R_{DS(on)}$	V _{GS} =5V,I _D =50mA	-	3.6	7.5	Ω
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =60V,V _{GS} =0V	-	-	1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 20V,V _{DS} =0V	-	-	<u>+</u> 0.5	uA
Dynamic (Note 4)						
Total Gate Charge	Q_{g}	V _{DS} =10V, I _D =300mA, V _{GS} =4.5V ^(Note 1,2)	-	1.3	-	
Gate-Source Charge	Q_{gs}		-	0.6	-	nC
Gate-Drain Charge	Q_gd		-	0.2	-	
Input Capacitance	Ciss	V _{DS} =25V, V _{GS} =0V, f=1.0MHZ	-	22	-	_
Output Capacitance	Coss		-	12	-	pF
Reverse Transfer Capacitance	Crss		-	1.7	-	
Turn-On Delay Time	td _(on)	V_{DD} =10V, I _D =300mA, V_{GS} =10V, R_{G} =10 Ω ^(Note 1,2)	-	2.9	-	_
Turn-On Rise Time	tr		-	1.8	-	
Turn-Off Delay Time	td _(off)		-	5.6	-	ns
Turn-Off Fall Time	tf	$R_{G} = 1022$	-	1.9	-	
Drain-Source Diode				_		
Maximum Continuous Drain-Source				_	300	mA
Diode Forward Current	I _S		-	-	300	ША
Diode Forward Voltage	V_{SD}	I _S =300mA, V _{GS} =0V	-	0.92	1.5	V

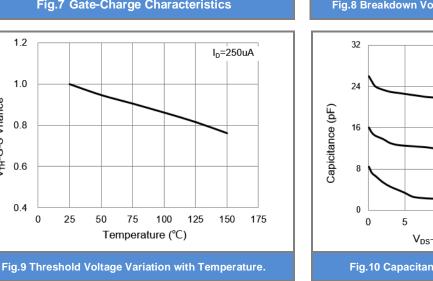
NOTES:

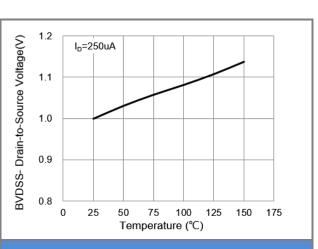
1. Pulse width</br>

- 2. Essentially independent of operating temperature typical characteristics.
- 3. R_{0JA} 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 square pad of copper
- 4. Guaranteed by design, not subject to production testing











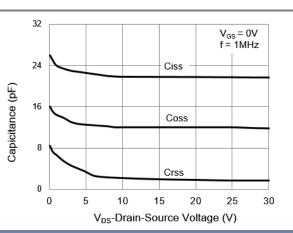


Fig.10 Capacitance vs. Drain-Source Voltage.



V_{TH}-G-S Vriance

0.8

0.6

0.4

0

25



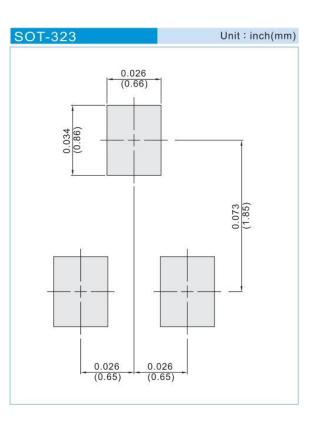




PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing Type	Marking	Version
PJC7002H_R1_00001	SOT-323	3K pcs / 7" reel	C2H	Halogen free
PJC7002H_R2_00001	SOT-323	12K pcs / 13" reel	C2H	Halogen free

MOUNTING PAD LAYOUT





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