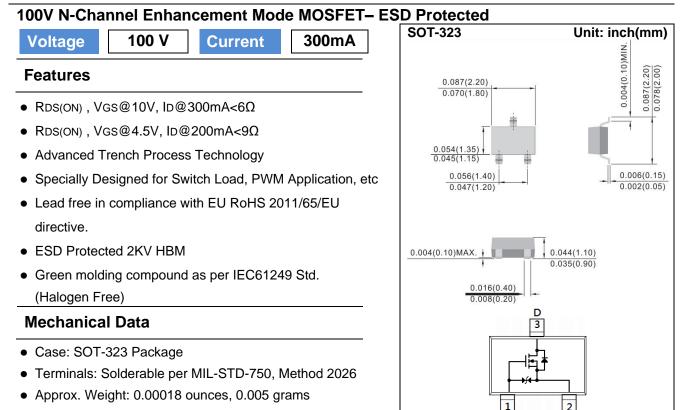
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	SEMI CONDUCTOR



Marking: C76

Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V _{DS}	100	V
Gate-Source Voltage	V _{GS}	<u>+</u> 20	V	
Continuous Drain Current		I _D	300	mA
Pulsed Drain Current (Note 4)		I _{DM}	800	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 _{θJA}	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	100	-	-	V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$, $I_{D}=250$ uA	1.5	1.77	2.5	V
Drain-Source On-State Resistance	$R_{DS(on)}$	V _{GS} =10V, I _D =300mA	-	4	6	
		V _{GS} =4.5V, I _D =200mA	-	4.2	9	Ω
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =80V, V _{GS} =0V	-	-	1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 20V, V _{DS} =0V	-	-	<u>+</u> 10	uA
Dynamic (Note 5)						
Total Gate Charge	Q_{g}	V_{DS} =30V, I _D =200mA, V_{GS} =10V ^(Note 1,2)	-	1.8	-	nC
Gate-Source Charge	Q_gs		-	0.4	-	
Gate-Drain Charge	Q_gd		-	0.3	-	
Input Capacitance	Ciss	V _{DS} =25V, V _{GS} =0V, f=1.0MHZ	-	45	-	pF
Output Capacitance	Coss		-	14	-	
Reverse Transfer Capacitance	Crss		-	7.8	-	
Turn-On Delay Time	td _(on)	V_{DD} =30V, I _D =200mA, V_{GS} =10V, R_{G} =6 Ω ^(Note 1,2)	-	3.4	-	
Turn-On Rise Time	tr		-	19	-	
Turn-Off Delay Time	td _(off)		-	8.2	-	ns
Turn-Off Fall Time	tf	K _G =012	-	20	-	
Drain-Source Diode						•
Maximum Continuous Drain-Source					400	mA
Diode Forward Current	I _S		-	-	400	
Diode Forward Voltage	V_{SD}	I _S =400mA, V _{GS} =0V	-	0.9	1.3	V

NOTES :

1. Pulse width300us, Duty cycle2%

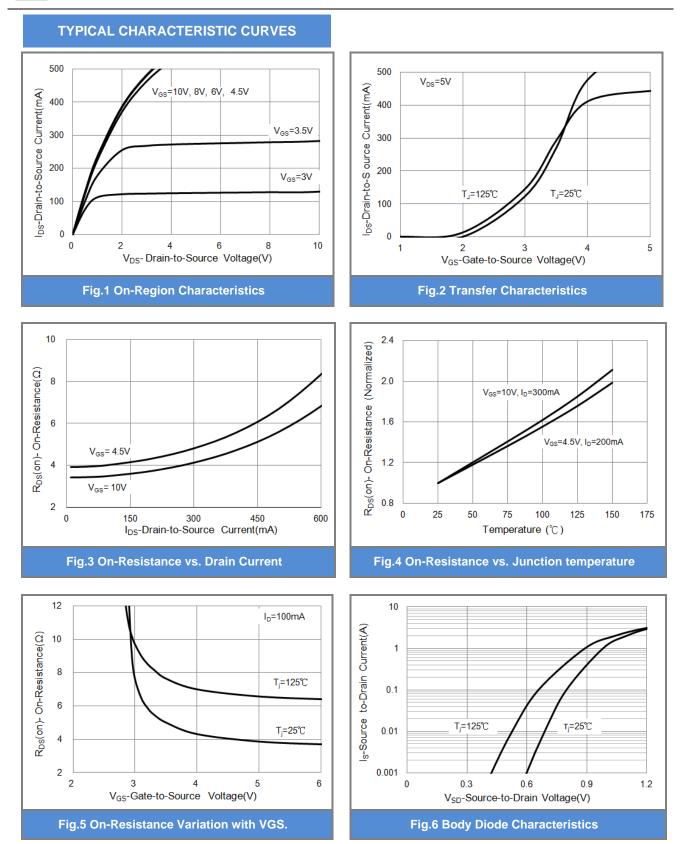
2. Essentially independent of operating temperature typical characteristics.

3. ReJA 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.

5. Guaranteed by design, not subject to production testing.





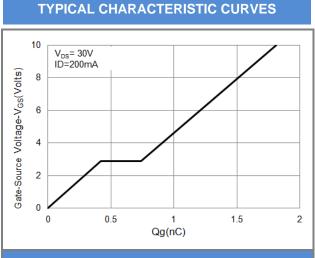


Fig.7 Gate-Charge Characteristics

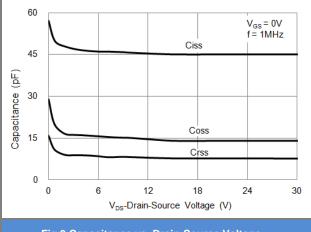
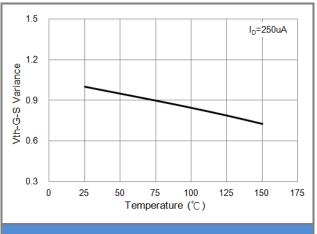


Fig.9 Capacitance vs. Drain-Source Voltage.





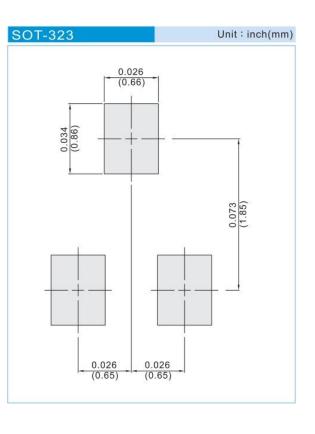




PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing type	Marking	Version
PJC7476_R1_00001	SOT-323	3K pcs / 7" reel	C76	Halogen free
PJC7476_R2_00001	SOT-323	12K pcs / 7" reel	C76	Halogen free

MOUNTING PAD LAYOUT





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