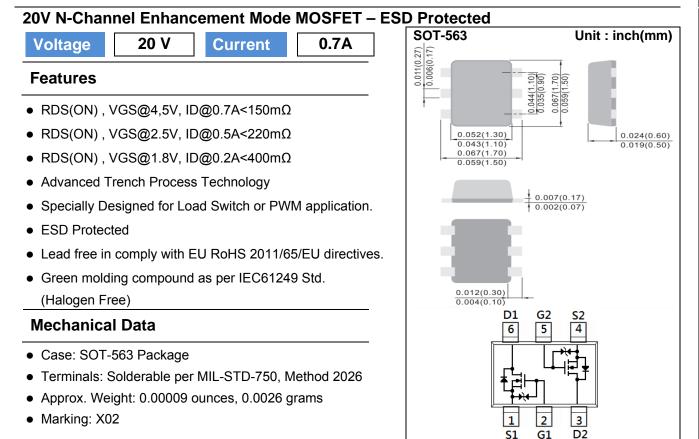
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	SEMI CONDUCTOR

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Maximum Ratings and Thermal Characteristics (T_A=25[°]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	0.7	А	
Pulsed Drain Current	I _{DM}	2.8	А	
Power Dissipation	T _a =25°C	PD	300	mW
	Derate above 25°C		2.4	mW/°C
Operating Junction and Storage Temperature Range		T_{J}, T_{STG}	-55~150	°C
Typical Thermal resistance - Junction to Ambient ^(Note 3)		$R_{ ext{ ext{ heta}JA}}$	417	°C/W



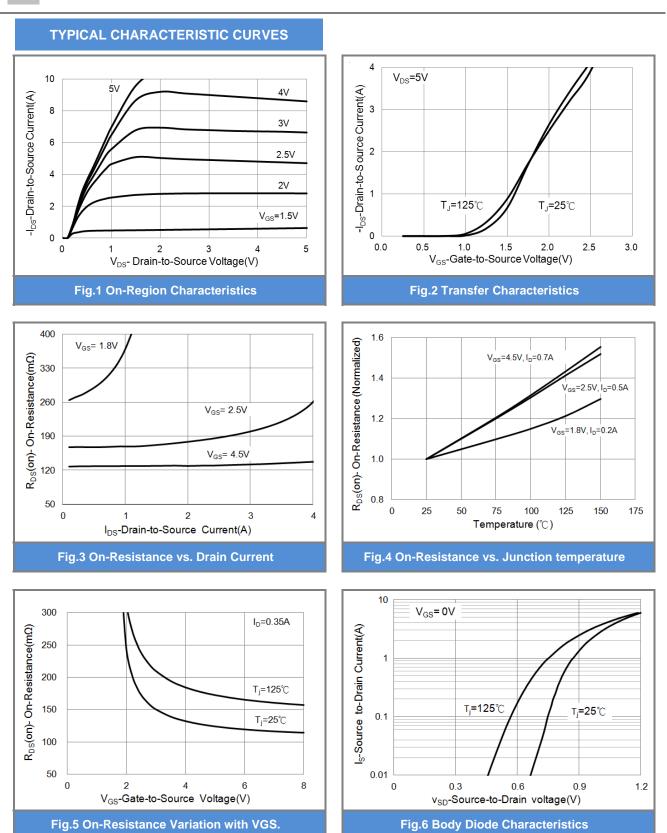
Electrical Characteristics (T_A=25[°]C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	BV_{DSS}	V _{GS} =0V, I _D =250uA	20	-	-	V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$, $I_{D}=250$ uA	0.5	0.78	1.0	V
Drain-Source On-State Resistance		V _{GS} =4.5V, I _D =0.7A	-	129	150	
	R _{DS(on)}	V _{GS} =2.5V, I _D =0.5A	-	167	220	mΩ
		V _{GS} =1.8V, I _D =0.2A	-	260	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 =0.7A, V_{GS} =4.5V ^(Note 1,2)	-	1.6	-	nC
Gate-Source Charge	Q_gs		_	0.3	-	
Gate-Drain Charge	Q_gd		-	0.4	-	
Input Capacitance	Ciss		-	92	-	
Output Capacitance	Coss	V _{DS} =10V, V _{GS} =0V, f=1.0MHZ	-	25	-	pF
Reverse Transfer Capacitance	Crss		-	9	-	
Switching						
Turn-On Delay Time	td _(on)		_	6	-	
Turn-On Rise Time	tr	V_{DD} =10V, I _D =0.7A, V_{GS} =4.5V, R_{G} =6 Ω ^(Note 1,2)	-	26	-	
Turn-Off Delay Time	td _(off)		-	41	-	ns
Turn-Off Fall Time	tf	R _G =012	-	31	-	
Drain-Source Diode				_	_	_
Maximum Continuous Drain-Source	1				0.4	А
Diode Forward Current	I _S			-	0.4	A
Diode Forward Voltage	V_{SD}	I _S =1A, V _{GS} =0V		0.89	1.2	v

NOTES :

- 1. Pulse width200us, Duty cycle
- 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







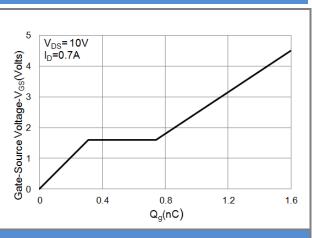


Fig.7 Gate-Charge Characteristics

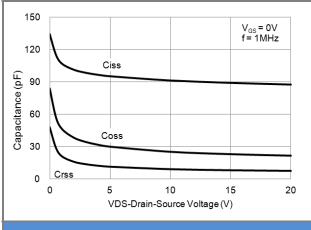
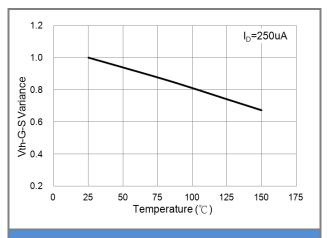


Fig.9 Capacitance vs. Drain-Source Voltage







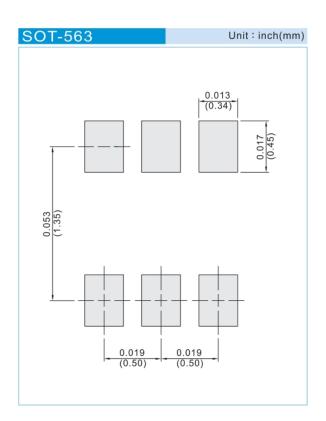




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PJX8802_R1_00001	SOT-563	4K pcs / 7" reel	X02	Halogen free
PJX8802_R2_00001	SOT-563	10K pcs / 13" reel	X02	Halogen free

MOUNTING PAD LAYOUT





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