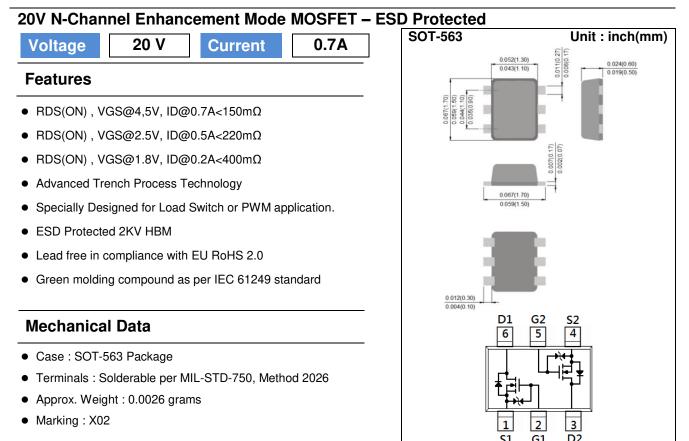
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	CONDUCTOR



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		١ _D	0.7	А
Pulsed Drain Current		Ідм	2.8	А
Power Dissipation	T _a =25°C	PD	300	mW
	Derate above 25°C		2.4	mW/°C
Operating Junction and Storage Tem	perating Junction and Storage Temperature Range		-55~150	٥C
Typical Thermal Resistance				
- Junction to Ambient ^(Note 3)		$R_{\theta JA}$	417	°C/W



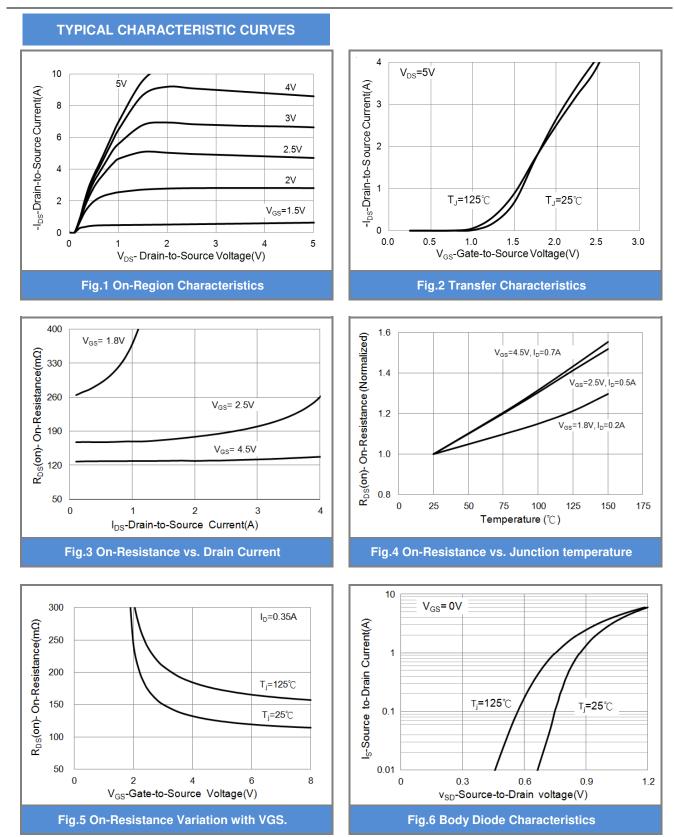
Electrical Characteristics (T_A=25°C unless otherwise noted)

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 =250uA	0.5	0.78	1.0	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =4.5V, I _D =0.7A	-	129	150	mΩ
		V_{GS} =2.5V, I _D =0.5A	-	167	220	
		V _{GS} =1.8V, I _D =0.2A	-	260	400	
Zero Gate Voltage Drain Current	IDSS	$V_{DS}=20V, V_{GS}=0V$	-	0.01	1	uA
Gate-Source Leakage Current	lgss	V _{GS=<u>+</u>8V, V_{DS}=0V}	-	<u>+</u> 2	<u>+</u> 10	uA
Dynamic						
Total Gate Charge	Qg		-	1.6	-	
Gate-Source Charge	Qgs	V_{DS} =10V, I _D =0.7A, V_{GS} =4.5V ^(Note 1,2)	-	0.3	-	nC
Gate-Drain Charge	Q_{gd}		-	0.4	-	
Input Capacitance	Ciss	V _{DS} =10V, V _{GS} =0V,	-	92	-	
Output Capacitance	Coss		-	25	-	pF
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	9	-	
Switching						
Turn-On Delay Time	td _(on)		-	6	-	
Turn-On Rise Time	tr	$V_{DD}=10V, I_{D}=0.7A,$ $V_{GS}=4.5V,$	-	26	-	
Turn-Off Delay Time	td _(off)		-	41	-	ns
Turn-Off Fall Time	tf	$R_G=6\Omega^{(Note 1,2)}$	-	31	-]
Drain-Source Diode						
Maximum Continuous Drain-Source	ls				0.4	А
Diode Forward Current	IS		-	-	0.4	A
Diode Forward Voltage	V _{SD}	I _S =1A, V _{GS} =0V	-	0.89	1.2	v

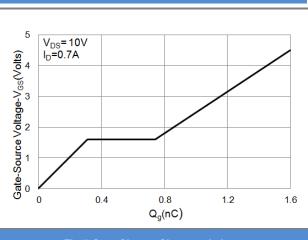
NOTES :

- 1. Pulse width</br>
- 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









TYPICAL CHARACTERISTIC CURVES

Fig.7 Gate-Charge Characteristics

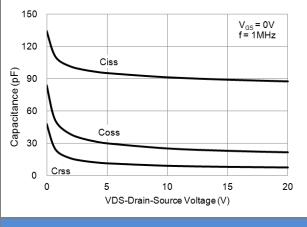
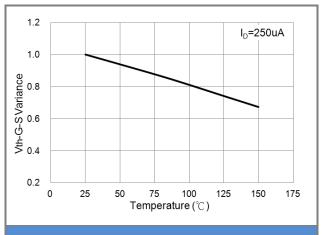


Fig.9 Capacitance vs. Drain-Source Voltage



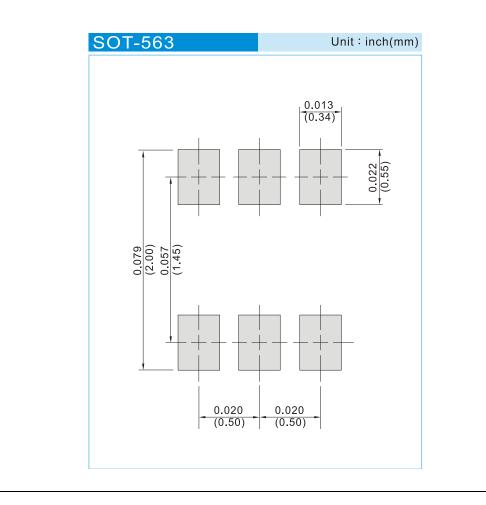




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PJX8802_R1_00002	SOT-563	4K pcs / 7" reel	X02	Halogen free RoHS compliant
PJX8802_R2_00002	SOT-563	10K pcs / 13" reel	X02	Halogen free RoHS compliant

Mounting Pad Layout







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