PJX8804		
30V N-Channel Enhancement Mode MOSFET – E	SD Protected SOT-563	Unit : inch(mm)
Voltage 30 V Current 0.6A Features	0.052(
● RDS(ON) , VGS@4,5V, ID@0.6A<220mΩ	0.067(1.70) 0.059(1.50) 0.044(1.50) 0.036(0.90)	E' B
 RDS(ON), VGS@2.5V, ID@0.4A<290mΩ RDS(ON), VGS@1.8V, ID@0.1A<600mΩ 		0.007(0.07)
Advanced Trench Process Technology	0.067(
 Specially Designed for Load Switch or PWM application. ESD Protected 2KV HBM 	0.059(
 ESD Protected 2KV HBM Lead free in compliance with EU RoHS 2.0 	1.1	
Green molding compound as per IEC 61249 standard	0.012(0.30)	
Mechanical Data	0.004(0.10) D1	G2 S2
 Case : SOT-563 Package Terminals : Solderable per MIL-STD-750, Method 2026 		└──└── └──╎╤╹┱ └┯╴╶┲┚
Approx. Weight : 0.0026 gramsMarking : X04		

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

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V _{DS}	30	V
Gate-Source Voltage	V _{GS}	<u>+</u> 8	V	
Continuous Drain Current		lo	0.6	А
Pulsed Drain Current		I _{DM}	2.4	А
Power Dissipation	Ta=25°C	PD	300	mW
	Derate above 25°C		2.4	mW/ºC
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	°C
Typical Thermal Resistance - Junction to Ambient ^(Note 3)		R _{θJA}	417	°C/W

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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	30	-	-	V
Gate Threshold Voltage	VGS(th)	V _{DS} =V _{GS} , I _D =250uA	0.5	0.79	1.3	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =4.5V, I _D =0.6A	-	177	220	mΩ
		V _{GS} =2.5V, I _D =0.4A	-	223	290	
		Vgs=1.8V, Id=0.1A	-	330	600	
Zero Gate Voltage Drain Current	IDSS	V _{DS} =30V, V _{GS} =0V	-	0.01	1	uA
Gate-Source Leakage Current	lgss	V _{GS=<u>+</u>8V, V_{DS}=0V}	-	<u>+</u> 1.5	<u>+</u> 10	uA
Dynamic ^(Note 5)						
Total Gate Charge	Qg		-	1.5	-	nC
Gate-Source Charge	Q_{gs}	V _{DS} =15V, I _D =0.6A, V _{GS} =4.5V ^(Note 1,2)	-	0.3	-	
Gate-Drain Charge	Q_gd		-	0.3	-	
Input Capacitance	Ciss	V _{DS} =15V, V _{GS} =0V,	-	93	-	pF
Output Capacitance	Coss		-	19	-	
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	6	-	
Turn-On Delay Time	td _(on)		-	6	-	
Turn-On Rise Time	tr	V _{DD} =15V, I _D =0.6A, V _{GS} =4.5V,	-	33	-	
Turn-Off Delay Time	td _(off)		-	37	-	ns
Turn-Off Fall Time	tf	$R_G=6\Omega^{(Note 1,2)}$	-	32	-	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	ls		-	-	0.4	А
Diode Forward Voltage	V _{SD}	Is=1A, V _{GS} =0V	-	0.81	1.2	V

NOTES :

- 1. Pulse width <300us, Duty cycle <2%
- 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 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.



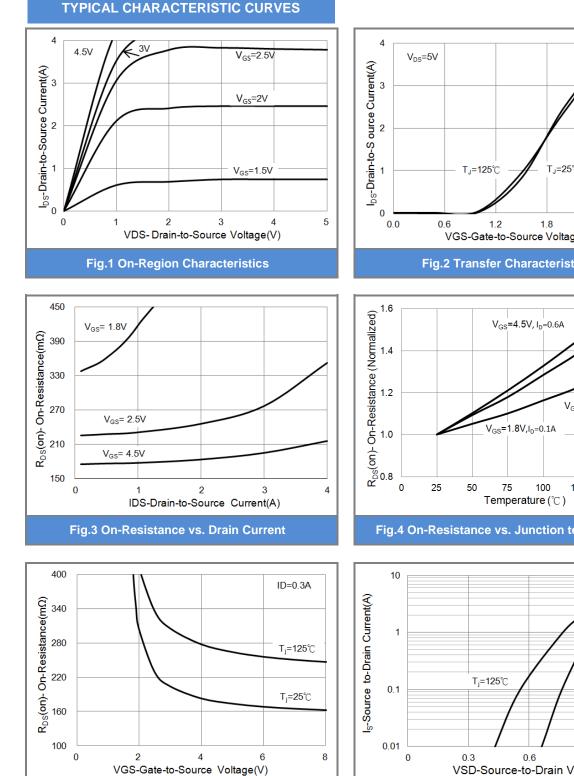


Fig.5 On-Resistance Variation with VGS.

T_=25℃ 2.4 3.0 VGS-Gate-to-Source Voltage(V)



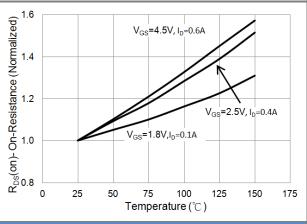
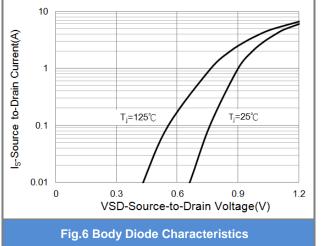
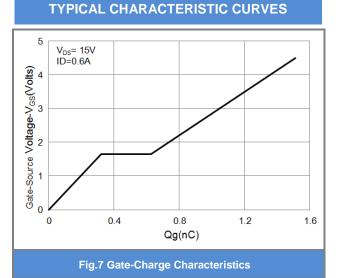


Fig.4 On-Resistance vs. Junction temperature







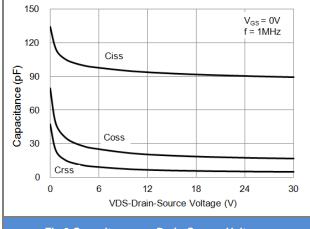


Fig.9 Capacitance vs. Drain-Source Voltage

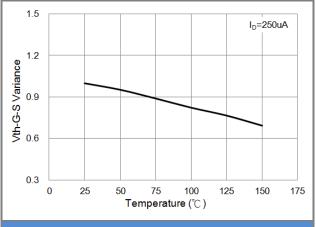


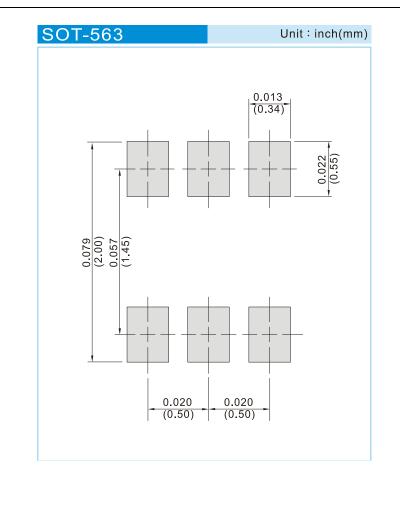
Fig.8 Threshold Voltage Variation with Temperature



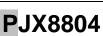
Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PJX8804_R1_00002	SOT-563	4K pcs / 7" reel	X04	Halogen free RoHS compliant
PJX8804_R2_00002	SOT-563	10K pcs / 13" reel	X04	Halogen free RoHS compliant

Mounting Pad Layout







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