PJX8806		
20V N-Channel Enhancement Mode MOSFET -	ESD Protected SOT-563	Unit : inch(mm
Voltage20 VCurrent800mA		
Features	0.052(1.)	
	0.110)	
• R _{DS(ON)} , V _{GS} @4.5V,I _{DS} @500mA=0.4Ω	0.067(1 0.0454(1 0.035(05	
 R_{DS(ON)}, V_{GS}@2.5V,I_{DS}@300mA=0.7Ω 		
• R _{DS(ON)} , V _{GS} @1.8V,I _{DS} @100mA=1.2Ω(typ)		0.002(0.07)
Advanced Trench Process Technology		-==
 Specially Designed for Load Switch or PWM application. 	0.067(1.)	
ESD Protected		
 Lead free in compliance with EU RoHS 2.0 		K
 Green molding compound as per IEC 61249 standard 		E
	0.012(0.30) 0.004(0.10)	
Mechanical Data	D1 6	G2 S2 5 4
Case : SOT-563 Package		
• Terminals : Solderable per MIL-STD-750, Method 2026		
Approx. Weight : 0.0026 grams		
Marking : X06	S1	2 3 G1 D2

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> 12	V
Continuous Drain Current		ID	800	mA
Pulsed Drain Current		I _{DM}	3000	mA
Power Dissipation	T _A =25°C	PD	350	mW
	Derate above 25°C		2.8	mW/ºC
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	°C
Typical Thermal Resistance - Junction to Ambient ^(Note 3)		Reja	357	°C/W



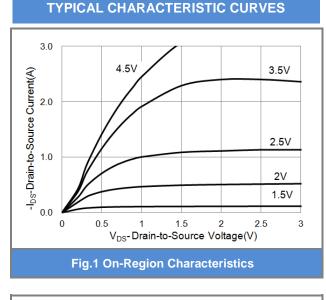
Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static			<u>.</u>	•	•	•
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V,I _D =250uA	20	-	-	V
Gate Threshold Voltage	VGS(th)	V _{DS} =V _{GS} ,I _D =250uA	0.4	0.63	1.0	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =4.5V,I _D =500mA	-	0.35	0.4	Ω
		$V_{GS}=2.5V,I_{D}=300mA$	-	0.6	0.7	
		V _{GS} =1.8V,I _D =100mA	-	1.2	-	
Zero Gate Voltage Drain Current	IDSS	V _{DS} =16V,V _{GS} =0V	-	0.02	1	uA
Gate-Source Leakage Current	lgss	V _{GS} = <u>+</u> 10V,V _{DS} =0V	-	<u>+</u> 2	<u>+</u> 10	uA
Dynamic						
Total Gate Charge	Qg	V _{DS} =10V, I _D =500mA, V _{GS} =4.5V ^(Note 1,2)	-	0.92	-	
Gate-Source Charge	Q _{gs}		-	0.31	-	nC
Gate-Drain Charge	Q _{gd}		-	0.08	-	
Input Capacitance	Ciss		-	50	-	
Output Capacitance	Coss	V _{DS} =10V, V _{GS} =0V, f=1.0MHZ	-	10	-	pF
Reverse Transfer Capacitance	Crss		-	8.5	-	
Switching				_	_	_
Turn-On Delay Time	td _(on))/ <u>40)/</u> 500 A	-	4	-	
Turn-On Rise Time	tr	V_{DD} =10V, I_{D} =500mA, V _{GS} =4.5V,	-	20	-	
Turn-Off Delay Time	td _(off)		-	12	-	ns
Turn-Off Fall Time	tf	$R_G=6\Omega^{(Note 1,2)}$	-	25	-	
Drain-Source Diode						
Maximum Continuous Drain-Source	Is				500	mA
Diode Forward Current	IS		-	-	500	IIIA
Diode Forward Voltage	V _{SD}	Is=500mA, V _{GS} =0V	-	0.91	1.3	V

NOTES :

- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. RoJA 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





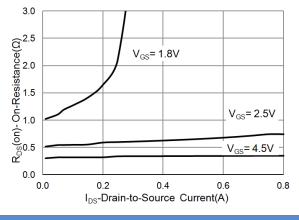
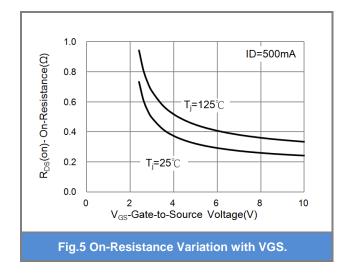


Fig.3 On-Resistance vs. Drain Current



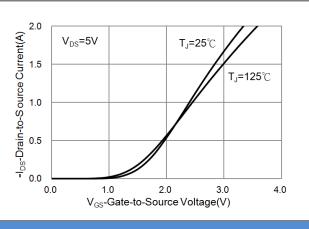


Fig.2 Transfer Characteristics

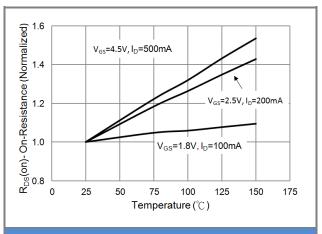
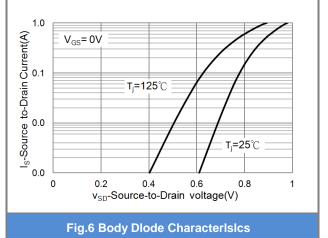


Fig.4 On-Resistance vs. Junction temperature





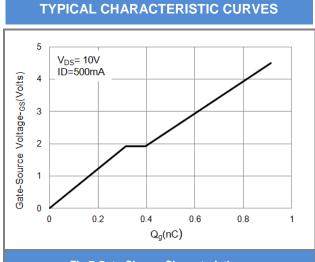
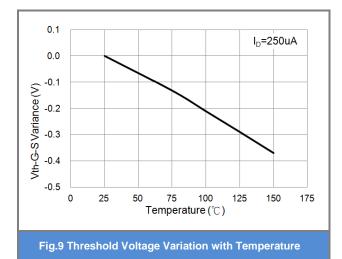


Fig.7 Gate-Charge Characteristics



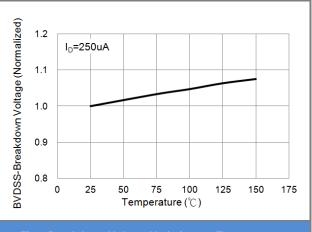


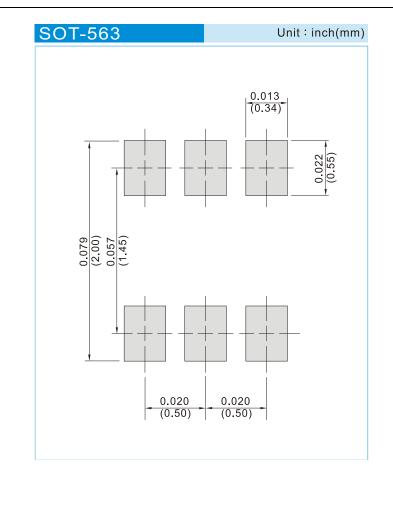
Fig.8 Breakdown Voltage Variation vs. Temperature



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PJX8806_R1_00001	SOT-563	4K pcs / 7" reel	X06	Halogen free RoHS compliant
PJX8806_R2_00001	SOT-563	10K pcs / 13" reel	X06	Halogen free RoHS compliant

Mounting Pad Layout







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