ΡΛΝ	JIT
	SEMI
	CONDUCTOR

100V P-Channel Enhancement Mode MOSFET

Current

-0.9 A

Features

Voltage

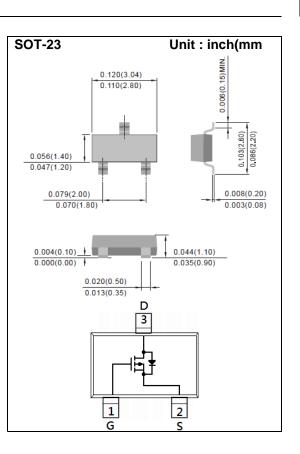
• R_{DS(ON)}, VGS@-10V, I_D@-0.9A<650mΩ

-100 V

- R_{DS(ON)}, VGS@-4.5V, I_D@-0.45A<700mΩ
- Advanced Trench Process Technology
- Specially Designed for Switch Load, PWM Application, etc
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : SOT-23 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0003 ounces, 0. 0084 grams



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

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V _{DS}	-100	V
Gate-Source Voltage		V _{GS}	V _{GS} <u>+</u> 20	
Continuous Drain Current (Note 4)	T _A =25°C		-0.9	
	T _A =70°C	ID	-0.75	А
Pulsed Drain Current (Note 1)		Ідм	м -3.6	
Power Dissipation	T _A =25°C		1.25	
	T _A =70°C	PD PD	0.8	W
Single Pulse Avalanche Energy (Note 6)		Eas	0.2	mJ
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	°C
Typical Thermal resistance - Junction to Ambient ^(Note 4,5)		Reja	100	°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	-100	-	-	
Gate Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=-250uA$	-1	-2	-2.5	V
Drain-Source On-State Resistance	_	V _{GS} =-10V, I _D =-0.9A	-	500	650	mΩ
	$R_{DS(on)}$	V _{GS} =-4.5V, I _D =-0.45A	-	560	700	
Zero Gate Voltage Drain Current	IDSS	V _{DS} =-80V, V _{GS} =0V	-	-	-1	uA
Gate-Source Leakage Current	lgss	V _{GS} = <u>+</u> 20V, V _{DS} =0V	-	-	<u>+</u> 100	nA
Dynamic (Note 7)						
Total Gate Charge	Qg	V_{DS} =-50V, I _D =-1A, V _{GS} =-10V ^(Note 2,3)	-	8	-	nC
Gate-Source Charge	Q_{gs}		-	1.8	-	
Gate-Drain Charge	Q_gd		-	1.4	-	
Input Capacitance	Ciss	V _{DS} =-15V, V _{GS} =0V, f=1MHZ	-	448	-	
Output Capacitance	Coss		-	28	-	pF
Reverse Transfer Capacitance	Crss		-	21	-	
Turn-On Delay Time	td _(on)		-	3.7	-	
Turn-On Rise Time	tr	V _{DS} =-50V, I _D =1A, V _{GS} =-10V, R _G =6.2Ω (Note 2,3)	-	25	-	
Turn-Off Delay Time	td _(off)		-	21	-	ns
Turn-Off Fall Time	tf	(1000 2,5)	-	22	-	
Drain-Source Diode						
Maximum Continuous Drain-Source	ls		-	-	-1.5	A
Diode Forward Current						
Diode Forward Voltage	V _{SD}	Is=-1A, V _{GS} =0V	-	-0.82	-1.2	V

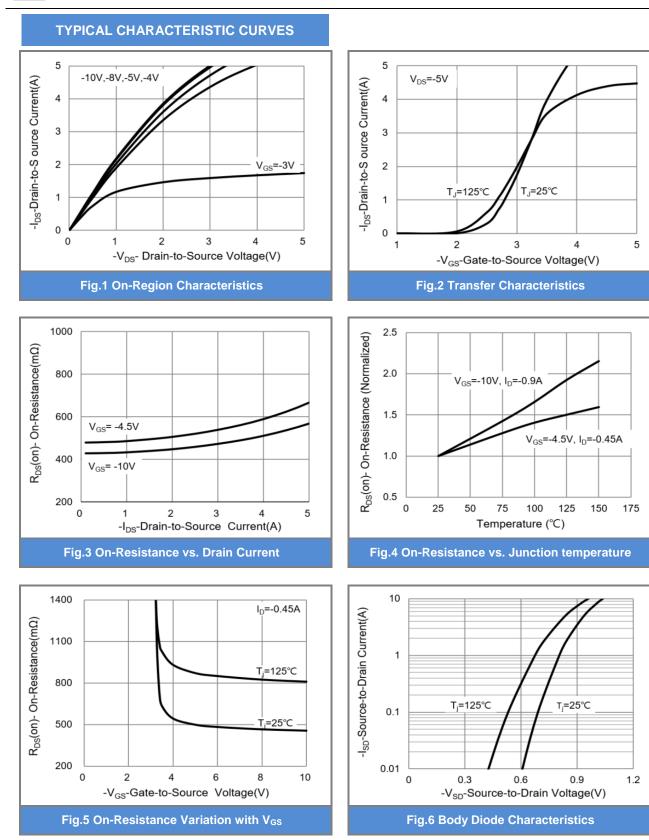
NOTES :

- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. The maximum current rating is package limited.
- Repetitive rating, pulse width limited by junction temperature T_{J(MAX)}=150°C. Ratings are based on low frequency and duty cycles to keep initial T_J =25°C.
- 5. The test condition is L=0.1mH, I_{AS}=-2A, V_{DD}=-25V, V_{GS}=-10V
- 6. R_{®JA} 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 inch² with 2oz.square pad of copper.
- 7. Guaranteed by design, not subject to production testing.

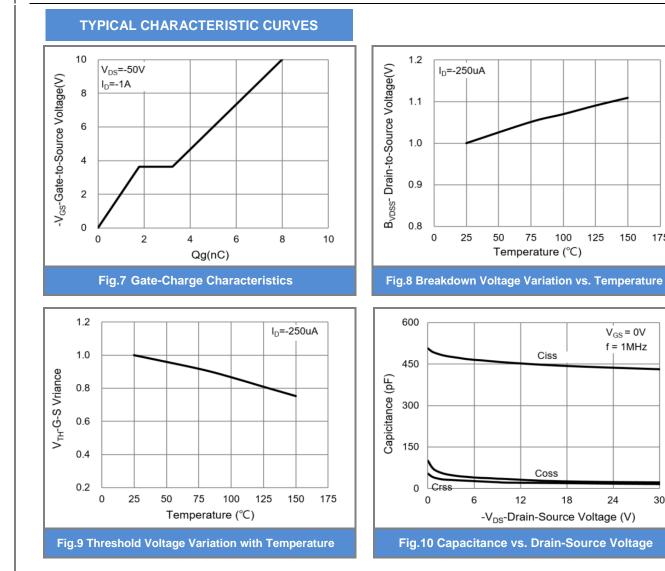


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PJA3471







100

18

125

150

 $V_{GS} = 0V$ f = 1MHz

24

30

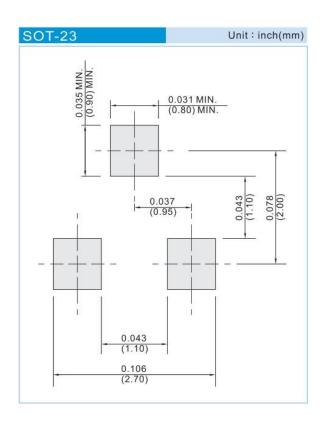
175



Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJA3471_R1_00001	SOT-23	3K pcs / 7" reel	A71	Halogen free

Mounting Pad Layout





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