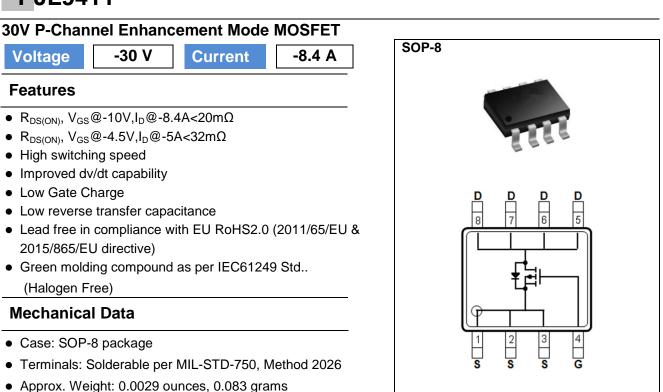


PJL9411



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> 20	V
Continuous Drain Current	T _A =25°C		-8.4	
	T _A =70°C	I _D	-6.7	A
Pulsed Drain Current (Note 1)		I _{DM}	-33.6	А
Power Dissipation	T _A =25°C		1.7	
	T _A =70°C	P _D	1.1	W
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150	°C
Typical Thermal Resistance - Junction to Ambient (Note 5)		R _{0JA}	73.5	°C/W





PJL9411

Electrical Characteristics ($T_A=25^{\circ}C$ 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	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=-250$ uA	-1.0	-1.5	-2.5	V		
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =-10V,I _D =-8.4A	-	17	20	mΩ		
Drain-Source On-State Resistance	$R_{DS(on)}$	V _{GS} =-4.5V,I _D =-5A	-	26	32	mΩ		
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-30V,V _{GS} =0V	-	-	-1.0	uA		
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 20V,V _{DS} =0V	-	-	<u>+</u> 100	nA		
Dynamic (Note 6)								
Total Gate Charge	Qg	V _{DS} =-15V, I _D =-5A, V _{GS} =-4.5V ^(Note 1,2)	-	11	-	nC		
Gate-Source Charge	Q_{gs}		-	3.2	-			
Gate-Drain Charge	Q_gd		-	3.9	-			
Input Capacitance	Ciss	V _{DS} =-15V, V _{GS} =0V, f=1.0MHZ	-	1169	-	pF		
Output Capacitance	Coss		-	180	-			
Reverse Transfer Capacitance	Crss		-	132	-			
Turn-On Delay Time	td _(on)	V_{DS} =-15V,I _D =-1A, V_{GS} =-10V, R _G =6Ω (Note 1,2)	-	5.9	-			
Turn-On Rise Time	tr		-	33	-			
Turn-Off Delay Time	td _(off)		-	55	-			
Turn-Off Fall Time	tf		-	34	-			
Drain-Source Diode					-			
Maximum Continuous Drain-Source	Is		-	-	-8.4	А		
Diode Forward Current	.5							
Diode Forward Voltage	V_{SD}	I _S =-1A, V _{GS} =0V	-	-0.7	-1.0	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. $R_{\Theta JA}$ 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.
- 6. Guaranteed by design, not subject to production testing.

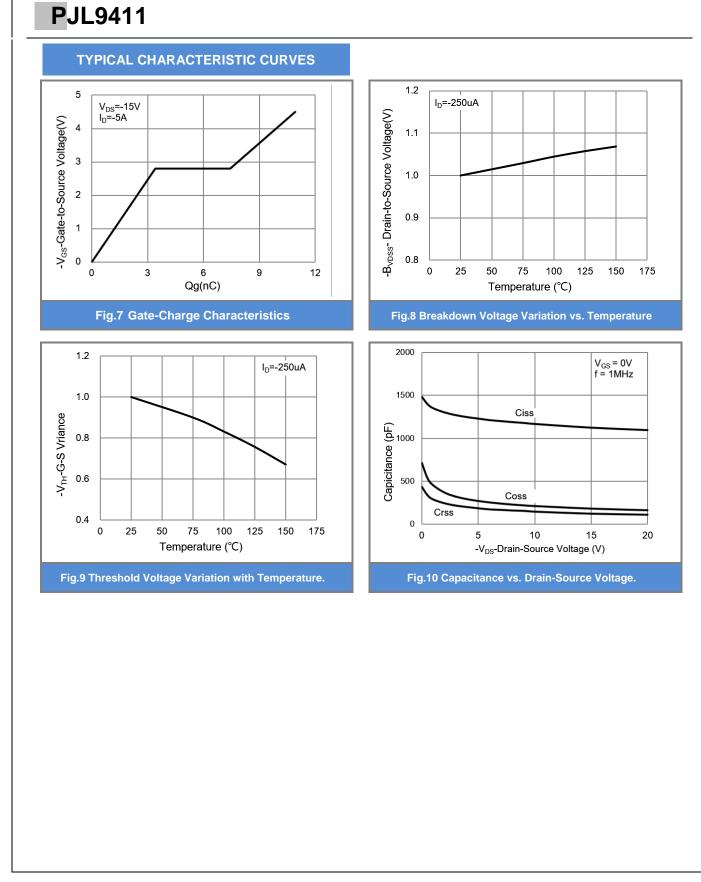




PJL9411 TYPICAL CHARACTERISTIC CURVES 20 20 V_G=-3.5 V_{DS}=-5V -I_{DS}-Drain-to-S ource Current(A) -I_{DS}-Drain-to-S ource Current(A) 16 16 /_{GS}=-10V,-8V, -5V-4.5V,-4V 12 12 V_{GS}=-3V 8 8 T_J=125℃ T**J=25°**C 4 4 V_{GS}=-2.5V 0 0 0 1 2 3 5 4 0 1 2 3 4 5 -V_{DS}- Drain-to-Source Voltage(V) -V_{GS}-Gate-to-Source Voltage(V) **Fig.1 On-Region Characteristics Fig.2 Transfer Characteristics** 1.8 45 R_{Ds}(on)- On-Resistance (Normalized) $R_{DS}(on)$ - On-Resistance(m Ω) 1.5 35 V_{GS}=-10V, I_D=-8.4A V_{GS}=-4.5V 1.2 25 V_{GS}=-4.5V, I_D=-5A V_{GS}=-10V 0.9 15 0.6 5 0 5 15 25 50 75 100 125 175 0 10 20 150 Temperature (°C) -I_{DS}-Drain-to-Source Current(A) Fig.3 On-Resistance vs. Drain Current Fig.4 On-Resistance vs. Junction temperature 80 10 I_D=-4A -I_{sD}-Source-to-Drain Current(A) $R_{DS}(on)$ - On-Resistance(m Ω) 60 1 40 Tj=125℃ т_і=25°С T_i=125℃ 0.1 20 T_i=25℃ 0 0.01 1 5 3 7 9 0 0.3 0.6 0.9 1.2 -V_{GS}-Gate-to-Source Voltage(V) -V_{SD}-Source-to-Drain Voltage(V)

Fig.5 On-Resistance Variation with VGS.





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CONDUCTOR







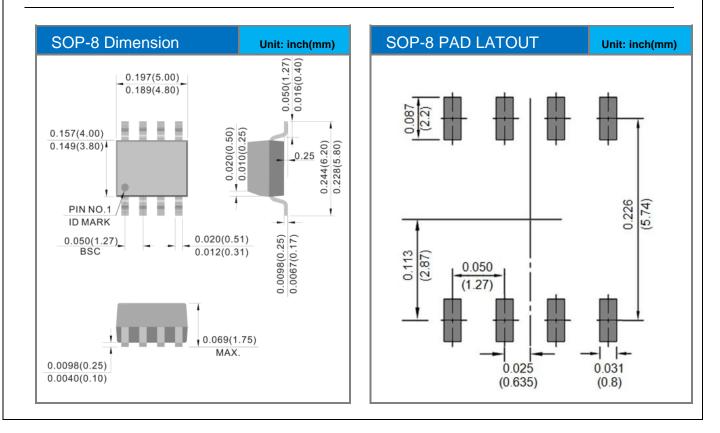


PJL9411

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version	
PJL9411_R2_00001	SOP-8	2.5K pcs / 13" reel	L9411	Halogen free	

Packaging Information & Mounting Pad Layout







PJL9411

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