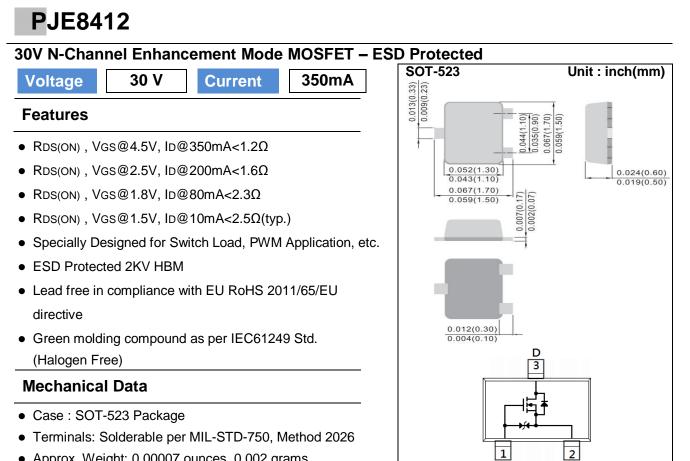
ΡΛΝ	ĴΪΤ			
	SEMI CONDUCTOR			



G

- Approx. Weight: 0.00007 ounces, 0.002 grams •
- Marking: E12

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> 10	V
Continuous Drain Current		I _D	350	mA
Pulsed Drain Current		I _{DM}	1400	mA
Power Dissipation	T _a =25°C		300	mW
	Derate above 25°C	P _D	2.4	mW/°C
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150	°C
Typical Thermal resistance - Junction to Ambient ^(Note 3)		R _{eja}	417	°C/W



PJE8412

Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

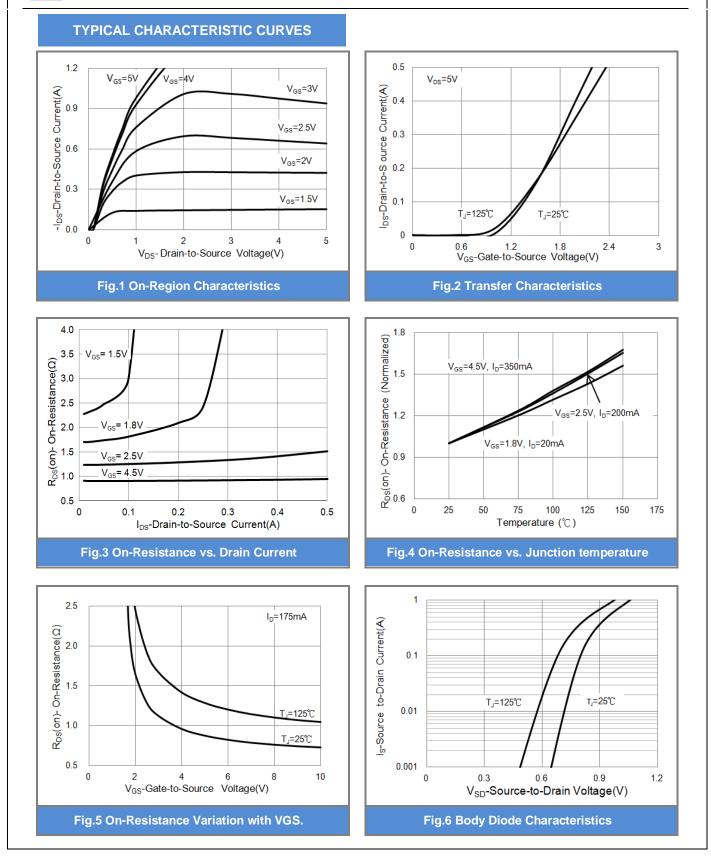
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	BV_{DSS}	V _{GS} =0V, I _D =250uA	30	-	-	V
Gate Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=250$ uA	0.6	0.85	1.1	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =4.5V, I _D =350mA	-	0.94	1.2	Ω
		V _{GS} =2.5V, I _D =200mA	-	1.32	1.6	
		V _{GS} =1.8V, I _D =80mA	-	1.82	2.3	
		V _{GS} =1.5V, I _D =10mA	-	2.5	-	
Zero Gate Voltage Drain Current	I _{DSS}	V_{DS} =30V, V_{GS} =0V	-	0.01	1	
	I _{GSS}	V _{GS} = <u>+</u> 8V, V _{DS} =0V	-	-	<u>+</u> 10	uA
Gate-Source Leakage Current		V _{GS} = <u>+</u> 5V, V _{DS} =0V	-	-	<u>+</u> 1	
Dynamic (Note 5)						
Total Gate Charge	Qg	V _{DS} =15V, I _D =350mA, V _{GS} =4.5V ^(Note 1,2)	-	0.87	-	nC
Gate-Source Charge	Q_gs		-	0.26	-	
Gate-Drain Charge	Q_gd		-	0.16	-	
Input Capacitance	Ciss	V _{DS} =15V, V _{GS} =0V,	-	34	-	pF
Output Capacitance	Coss		-	8.9	-	
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	2.5	-	
Turn-On Delay Time	td _(on)	V_{DD} =15V, I _D =80mA, V_{GS} =4.0V, R_{G} =6 Ω ^(Note 1,2)	-	7.1	-	
Turn-On Rise Time	tr		-	20	-	ns
Turn-Off Delay Time	td _(off)		-	41	-	
Turn-Off Fall Time	tf	rG=077	-	31	-	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	١ _s		-	-	350	mA
Diode Forward Voltage	V_{SD}	I _S =350mA, V _{GS} =0V	-	0.88	1.3	V

NOTES :

- 1. Pulse width \leq 300 us, Duty cycle \leq 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.



PJE8412



PJE8412

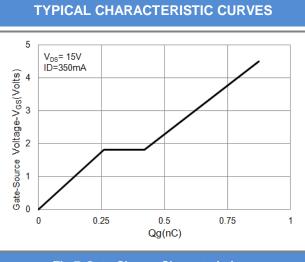


Fig.7 Gate-Charge Characteristics

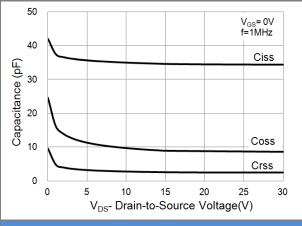
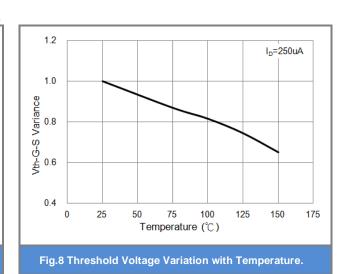


Fig.9 Capacitance vs. Drain-Source Voltage.





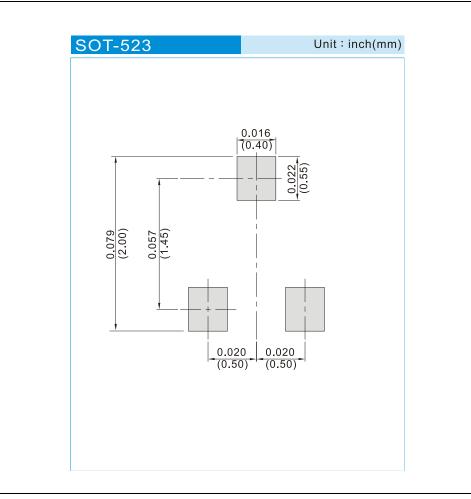


PJE8412

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PJE8412_R1_00001	SOT-523	4K pcs / 7" reel	E12	Halogen free

MOUNTING PAD LAYOUT





- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Page 6

单击下面可查看定价,库存,交付和生命周期等信息

>>Panjit(强茂)