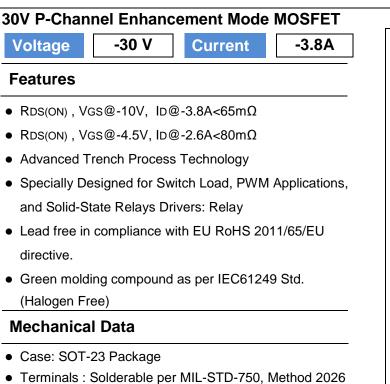
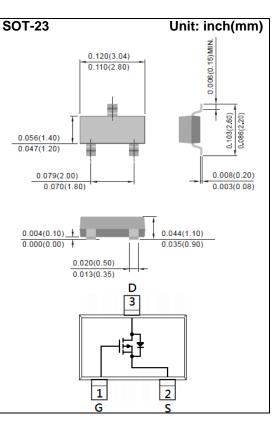
ΡΛΝ	JIT
	SEMI
	CONDUCTOR





- Approx. Weight: 0.0003 ounces, 0.0084 grams
- Marking: A07



Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}C$ 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		I _D	-3.8	А
Pulsed Drain Current		I _{DM}	-15.2	А
Power Dissipation	T _a =25°C		1.25	W
	Derate above 25°C	P _D	10	mW/°C
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150	°C
Typical Thermal resistance - Junction to Ambient ^(Note 3)		R _{θJA}	100	°C/W



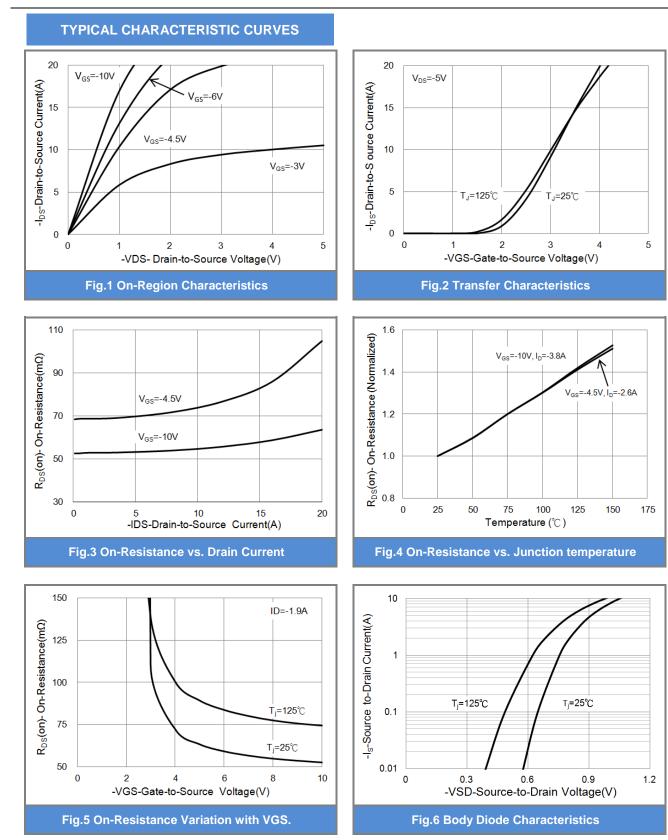
Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

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	-1.36	-2.1	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =-10V, I _D =-3.8A	-	52	65	mΩ
		V _{GS} =-4.5V, I _D =-2.6A	-	66	80	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-30V, V _{GS} =0V	-	-0.01	-1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 20V, V _{DS} =0V	-	<u>+</u> 10	<u>+</u> 100	nA
Dynamic						
Total Gate Charge	Qg	V_{DS} =-15V, I_{D} =-3.8A,	-	12	-	nC
Gate-Source Charge	Q_{gs}		-	1.7	-	
Gate-Drain Charge	Q_gd	V _{GS} =-10V ^(Note 1,2)	-	2.3	-	
Input Capacitance	Ciss	V _{DS} =-15V, V _{GS} =0V,	-	528	-	pF
Output Capacitance	Coss		-	63	-	
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	48	-	
Switching						
Turn-On Delay Time	td _(on)		-	5	-	
Turn-On Rise Time	tr	V_{DD} =-15V, I _D =-3.8A,		33		
Turn-Off Delay Time	td _(off)	V_{GS} =-10V, R _G =6 Ω ^(Note 1,2)	-	27	-	ns
Turn-Off Fall Time	tf	K _G =012		10		
Drain-Source Diode						
Maximum Continuous Drain-Source					-1.5	_
Diode Forward Current	I _S		-	-	-1.5	A
Diode Forward Voltage	V_{SD}	I _S =-1.0A, V _{GS} =0V	-	0.76	-1.2	V

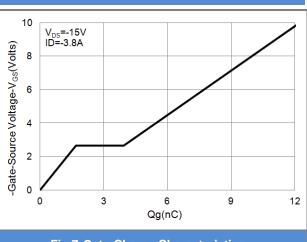
NOTES:

- 1. Pulse width</br>
- 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









TYPICAL CHARACTERISTIC CURVES

Fig.7 Gate-Charge Characteristics

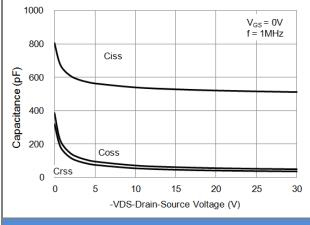
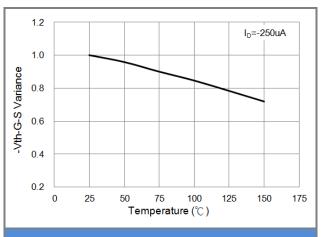


Fig.9 Capacitance vs. Drain-Source Voltage.





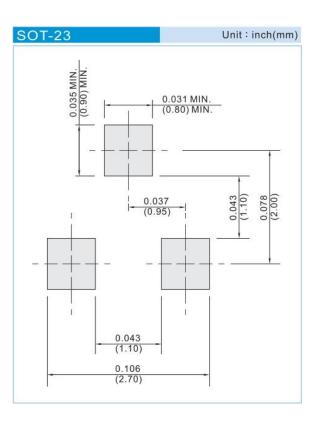




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PJA3407_R1_00001	SOT-23	3K pcs / 7" reel	A07	Halogen free
PJA3407_R2_00001	SOT-23	12K pcs / 13" reel	A07	Halogen free

MOUNTING PAD LAYOUT







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