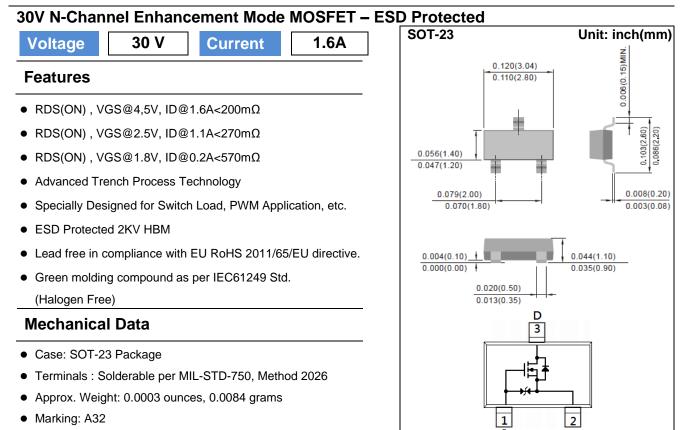
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	SEMI CONDUCTOR

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PJA3432



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> 8	V	
Continuous Drain Current	I _D	1.6	А	
Pulsed Drain Current (Note 4)		I _{DM}	6.4	А
Power Dissipation	T _a =25°C	P _D	1.25	W
	Derate above 25°C		10	mW/°C
Operating Junction and Storage	ting Junction and Storage Temperature Range		-55~150	°C
Typical Thermal resistance - Junction to Ambient ^(Note 3)		$R_{ extsf{ heta}JA}$	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	0.5	0.78	1.3	V
Drain-Source On-State Resistance		V _{GS} =4.5V, I _D =1.6A	-	145	200	mΩ
	$R_{DS(on)}$	V _{GS} =2.5V, I _D =1.1A	-	185	270	
		V _{GS} =1.8V, I _D =0.2A	-	330	570	
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> 8V, V _{DS} =0V	-	1.4	<u>+</u> 10	uA
Dynamic (Note 5)						
Total Gate Charge	Qg	V_{DS} =15V, I _D =1.6A, V_{GS} =4.5V ^(Note 1,2)	-	1.5	-	nC
Gate-Source Charge	Q_gs		-	0.3	-	
Gate-Drain Charge	Q_gd		-	0.3	-	
Input Capacitance	Ciss	V _{DS} =15V, V _{GS} =0V, f=1.0MHZ	-	93	-	pF
Output Capacitance	Coss		-	19	-	
Reverse Transfer Capacitance	Crss		-	6	-	
Turn-On Delay Time	td _(on)		-	6.4	-	
Turn-On Rise Time	tr	V_{DD} =15V, I_{D} =1.6A, V_{GS} =4.5V, R_{G} =6 Ω ^(Note 1,2)	-	33	-	
Turn-Off Delay Time	td _(off)		-	37	-	ns
Turn-Off Fall Time	tf	R _G =012	-	32	-	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	I _S		-	-	1.0	А
Diode Forward Voltage	V _{SD}	I _S =1.0A, V _{GS} =0V	-	0.81	1.2	V

NOTES :

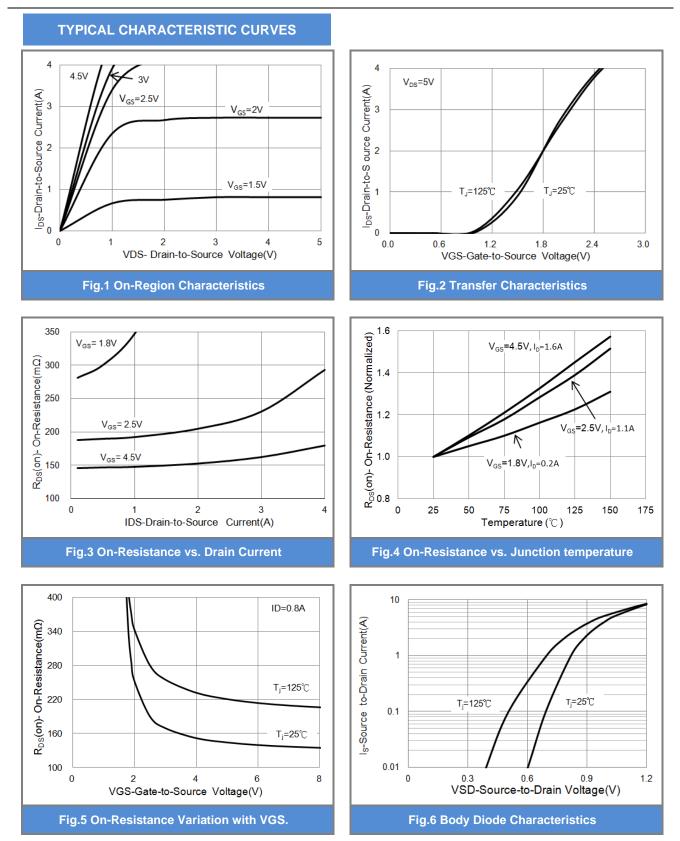
1. Pulse width

2. Essentially independent of operating temperature typical characteristics.

3. ReJA 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.





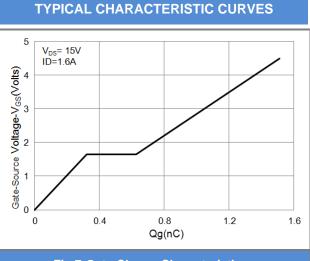


Fig.7 Gate-Charge Characteristics

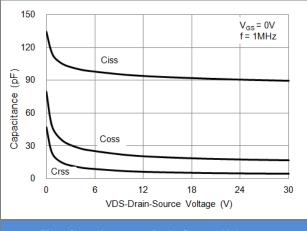
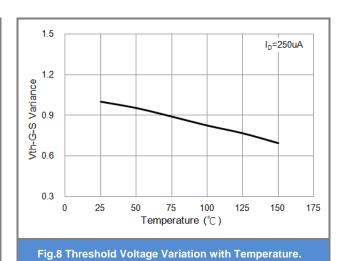


Fig.9 Capacitance vs. Drain-Source Voltage.





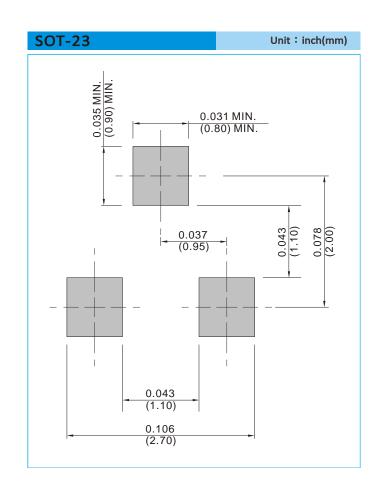




PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing type	Marking	Version
PJA3432_R1_00001	SOT-23	3K pcs / 7" reel	A32	Halogen free
PJA3432_R2_00001	SOT-23	12K pcs / 13" reel	A32	Halogen free

MOUNTING PAD LAYOUT





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