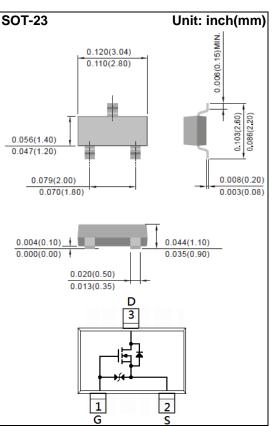


Marking: A34



Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V _{DS}	20	V
Gate-Source Voltage		V _{GS}	<u>+</u> 10	V
Continuous Drain Current		I _D	750	mA
Pulsed Drain Current (Note 4)		I _{DM}	1500	mA
Power Dissipation	T _a =25°C	P _D	500	mW
	Derate above 25°C		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 _{θJA}	250	°C/W



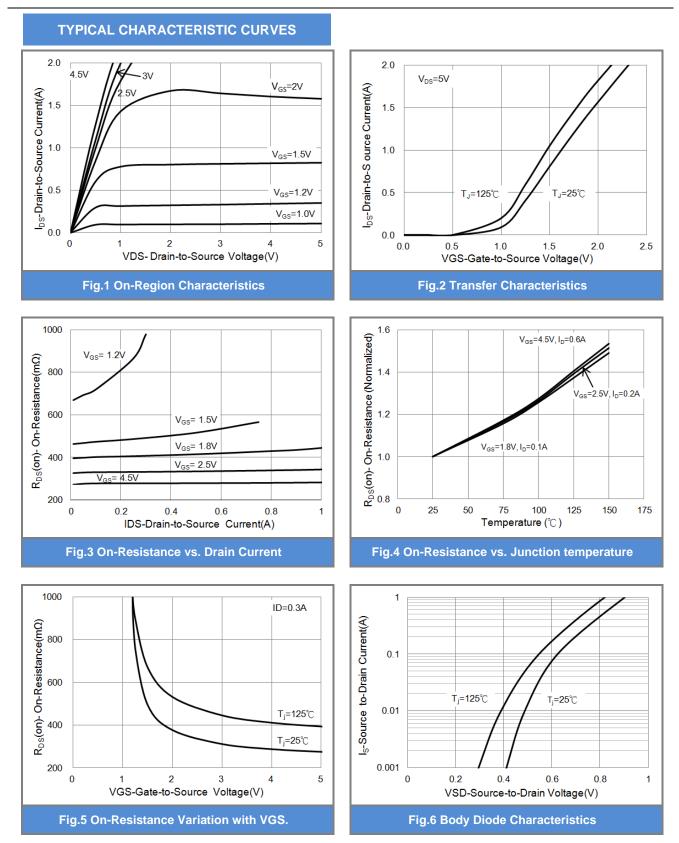
Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static			•	•		
Drain-Source Breakdown Voltage	BV_{DSS}	V _{GS} =0V, I _D =250uA	20	-	-	V
Gate Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=250$ uA	0.3	0.65	1.0	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =4.5V, I _D =600mA	-	280	400	mΩ
		V _{GS} =2.5V, I _D =200mA	-	350	650	
		V _{GS} =1.8V, I _D =100mA	-	400	800	
		V _{GS} =1.5V, I _D =50mA	-	500	1200	
		V _{GS} =1.2V, I _D =20mA	-	1000	3000	
Zero Gate Voltage Drain Current	I _{DSS}	V_{DS} =16V, V_{GS} =0V	-	0.01	1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 8V, V _{DS} =0V	-	<u>+</u> 0.5	<u>+</u> 10	uA
Dynamic (Note 5)						
Total Gate Charge	Q_g	V_{DS} =10V, I _D =600mA, V _{GS} =4.5V ^(Note 1,2)	-	1.4	-	nC
Gate-Source Charge	Q_gs		-	0.22	-	
Gate-Drain Charge	Q_gd		-	0.21	-	
Input Capacitance	Ciss	V _{DS} =10V, V _{GS} =0V, f=1.0MHZ	-	67	-	pF
Output Capacitance	Coss		-	19	-	
Reverse Transfer Capacitance	Crss		-	6	-	
Turn-On Delay Time	td _(on)		-	2.8	-	ns
Turn-On Rise Time	tr	V_{DD} =10V, I _D =150mA, V_{GS} =4.0V, R_{G} =10 Ω ^(Note 1,2)		20	-	
Turn-Off Delay Time	td _(off)			23	-	
Turn-Off Fall Time	tf	$\kappa_G = 1002$	-	23	-	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	I _S		-	-	0.5	A
Diode Forward Voltage	V _{SD}	I _S =0.5A, V _{GS} =0V		0.87	1.3	V

NOTES :

- 1. Pulse width</br>
- 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.







TYPICAL CHARACTERISTIC CURVES

Fig.7 Gate-Charge Characteristics

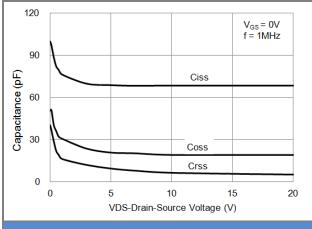
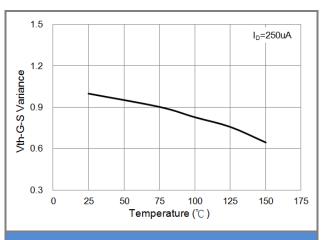


Fig.9 Capacitance vs. Drain-Source Voltage.







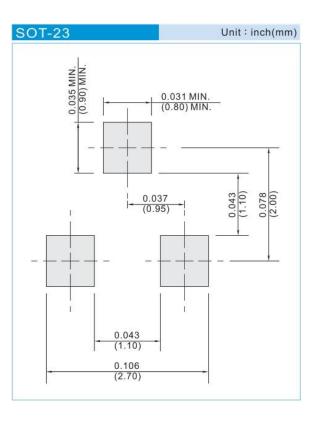




PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing type	Marking	Version
PJA3434_R1_00001	SOT-23	3K pcs / 7" reel	A34	Halogen free
PJA3434_R2_00001	SOT-23	12K pcs / 13" reel	A34	Halogen free

MOUNTING PAD LAYOUT







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