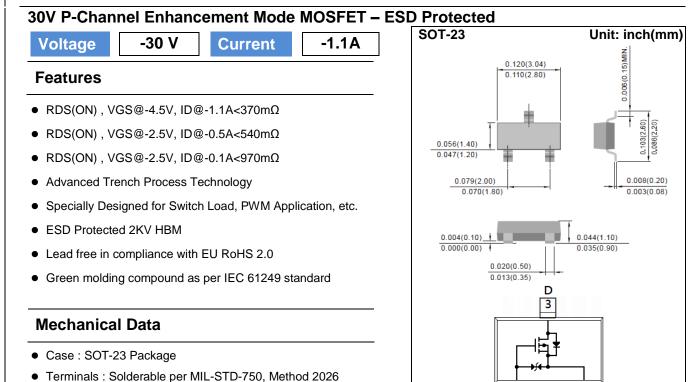
ΡΛΝ	JIT
	SEMI
	CONDUCTOR



- Approx. Weight : 0.0003 ounces, 0.0084 grams
- Marking : A33

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> 8	V	
Continuous Drain Current		I _D	-1.1	А
Pulsed Drain Current (Note 4)		I _{DM}	-4.4	А
Power Dissipation	T _a =25°C	P _D	1.25	W
	Derate above 25°C		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 _{eJA}	100	°C/W

2

1

G





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)}	$V_{DS}=V_{GS}, I_{D}=-250uA$	-0.5	-0.98	-1.3	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =-4.5V, I _D =-1.1A	-	293	370	mΩ
		V _{GS} =-2.5V, I _D =-0.5A	-	387	540	
		V _{GS} =-1.8V, I _D =-0.1A	-	750	970	
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	-	<u>+</u> 3.4	<u>+</u> 10	uA
Dynamic (Note 5)						
Total Gate Charge	Q_{g}		-	1.6	-	nC
Gate-Source Charge	Q_gs	V_{DS} =-15V, I _D =-1.1A, V _{GS} =-4.5V ^(Note 1,2)	-	0.5	-	
Gate-Drain Charge	Q_gd		-	0.3	-	
Input Capacitance	Ciss	V _{DS} =-15V, V _{GS} =0V,	-	125	-	pF
Output Capacitance	Coss		-	22	-	
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	6	-	
Turn-On Delay Time	td _(on)		-	11	-	
Turn-On Rise Time	tr	V_{DD} =-15V, I _D =-1.1A, V_{GS} =-4.5V, R_{G} =6 Ω ^(Note 1.2)	-	51	-	
Turn-Off Delay Time	td _(off)		-	65	-	ns
Turn-Off Fall Time	tf	R _G =0Ω	-	46	-	
Drain-Source Diode						
Maximum Continuous Drain-Source	I _s		-	-	-1.0	А
Diode Forward Current	5				-	
Diode Forward Voltage	V_{SD}	I _S =-1.0A, V _{GS} =0V	-	-0.9	-1.2	V

NOTES :

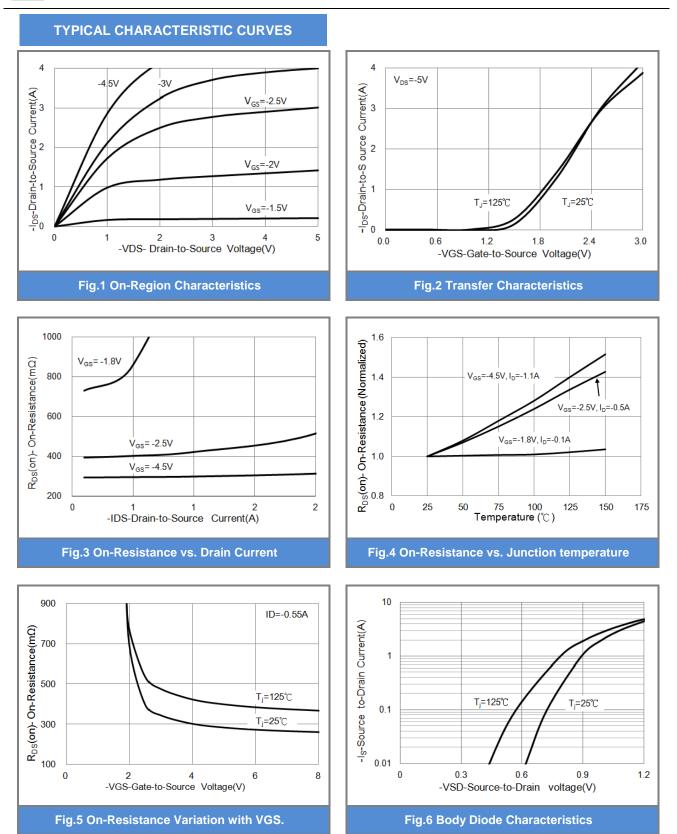
1. Pulse width</br>

2. Essentially independent of operating temperature typical characteristics.

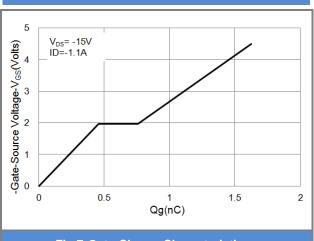
3. ReJA is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins mounted on a 1 inch FR-4 with 2oz. square pad of copper.

- 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

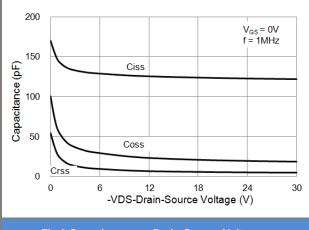
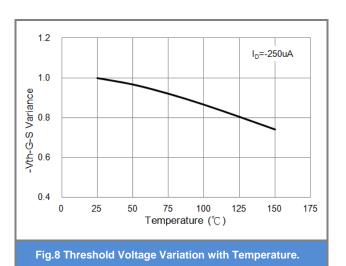


Fig.9 Capacitance vs. Drain-Source Voltage.



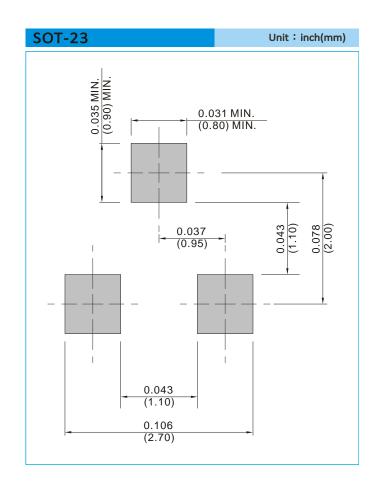




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJA3433_R1_00001	SOT-23	3K pcs / 7" reel	A33	Halogen free
PJA3433_R2_00001	SOT-23	12K pcs / 13" reel	A33	Halogen free

MOUNTING PAD LAYOUT







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