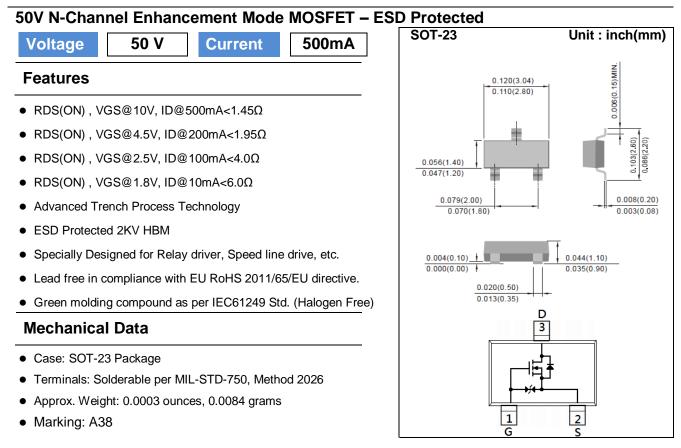
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	SEMI CONDUCTOR



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

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V _{DS}	50	V
Gate-Source Voltage		V _{GS}	<u>+</u> 20	V
Continuous Drain Current		I _D	500	mA
Pulsed Drain Current		I _{DM}	1200	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 _{eJA}	250	°C/W



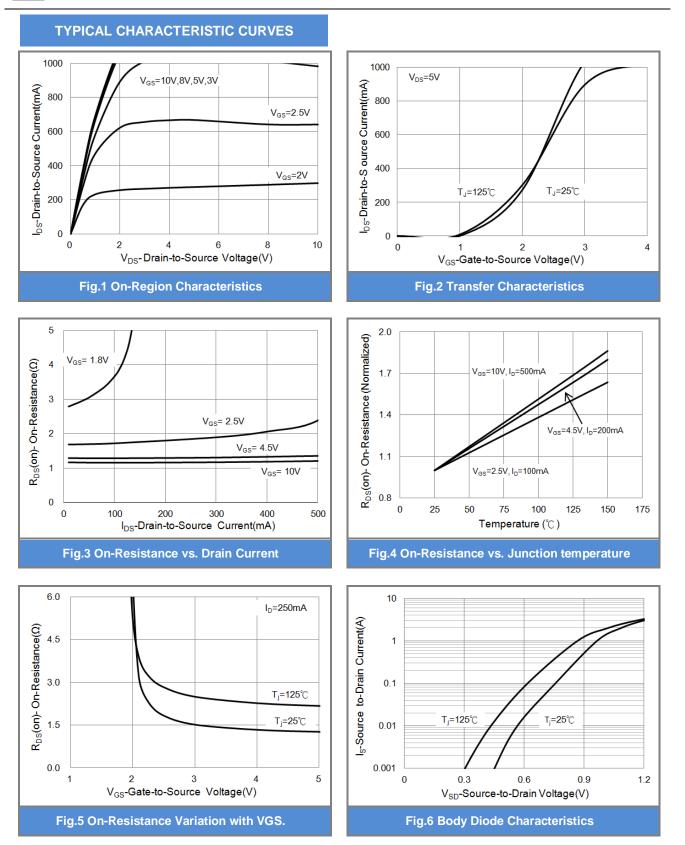
Electrical Characteristics (T_A=25°C unless otherwise noted)

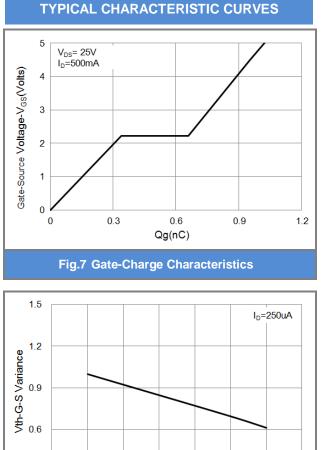
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	BV_{DSS}	V _{GS} =0V,I _D =250uA	50	-	-	V
Gate Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=250$ uA	0.5	0.86	1.0	V
Drain-Source On-State Resistance		V_{GS} =10V,I _D =500mA	-	1.2	1.45	
	P	V_{GS} =4.5V,I _D =200mA	-	1.3	1.95	Ω
	R _{DS(on)}	V _{GS} =2.5V,I _D =100mA	-	1.7	4.0	Ω
		V _{GS} =1.8V,I _D =10mA	-	4.0	6.0	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =50V,V _{GS} =0V	-	-	1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 20V,V _{DS} =0V	-	-	<u>+</u> 10	uA
Dynamic (Note 4)						
Total Gate Charge	Qg	V _{DS} =25V, I _D =500mA, V _{GS} =4.5V	-	0.95	-	nC
Gate-Source Charge	Q_gs		-	0.34	-	
Gate-Drain Charge	Q _{gd}		-	0.32	-	
Input Capacitance	Ciss		-	36	-	
Output Capacitance	Coss	V _{DS} =25V, V _{GS} =0V, f=1.0MHZ	-	11	-	pF
Reverse Transfer Capacitance	Crss		-	6.6	-	
Turn-On Delay Time	td _(on)		-	2.3	-	
Turn-On Rise Time	tr	$V_{DD}=25V, I_{D}=500mA,$ $V_{GS}=10V,$ $R_{G}=6\Omega^{(Note 1,2)}$	-	20	-	ns
Turn-Off Delay Time	td _(off)		-	7	-	
Turn-Off Fall Time	tf	R _G =012	-	20	-	
Drain-Source Diode						
Maximum Continuous Drain-Source	Is		-	-	500	mA
Diode Forward Current	Ŭ					
Diode Forward Voltage	V_{SD}	I _S =500mA, V _{GS} =0V	-	0.9	1.5	V

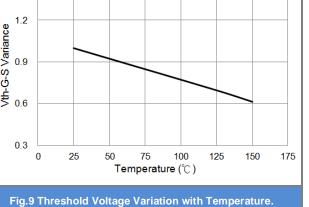
NOTES :

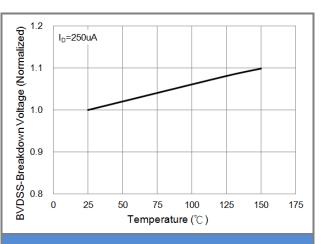
- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. R_{®JA} is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins. mounted on a 1 inch square pad of copper
- 4. Guaranteed by design, not subject to production testing













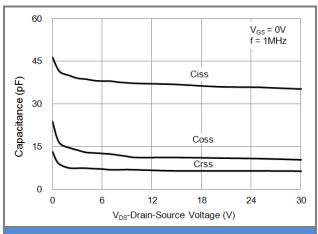


Fig.10 Capacitance vs. Drain-Source Voltage.

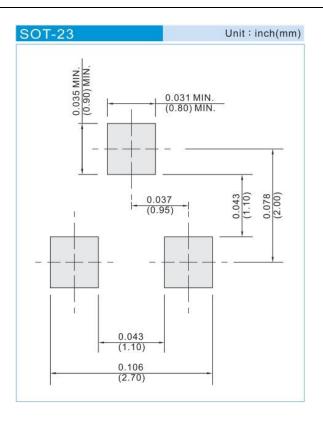




PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing type	Marking	Version
PJA3438_R1_00001	SOT-23	3K pcs / 7" reel	A38	Halogen free
PJA3438_R2_00001	SOT-23	12K pcs / 13" reel	A38	Halogen free

MOUNTING PAD LAYOUT







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