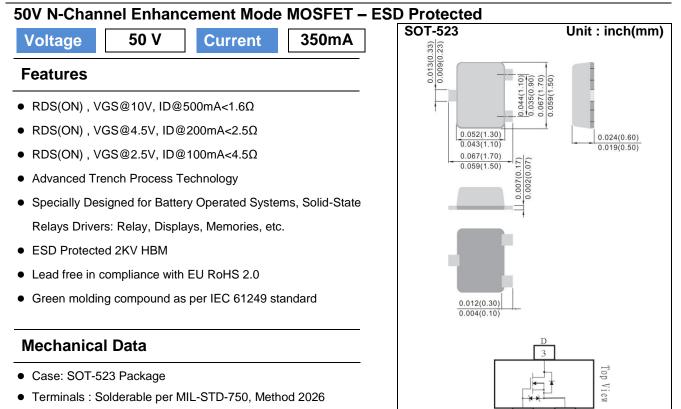
	1 A A A A A A A A A A A A A A A A A A A
ΡΛΝ	JIT
	SEMI
	CONDUCTOR



• Approx. Weight: 0.00007 ounces, 0.002 grams

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	350	mA
Pulsed Drain Current		I _{DM}	1200	mA
Power Dissipation	T _A =25°C	P _D	223	mW
	Derate above 25°C		1.8	mW/°C
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150	°C
Typical Thermal resistance - Junction to Ambient (Note 3)		$R_{ extsf{ heta}JA}$	560	°C/W



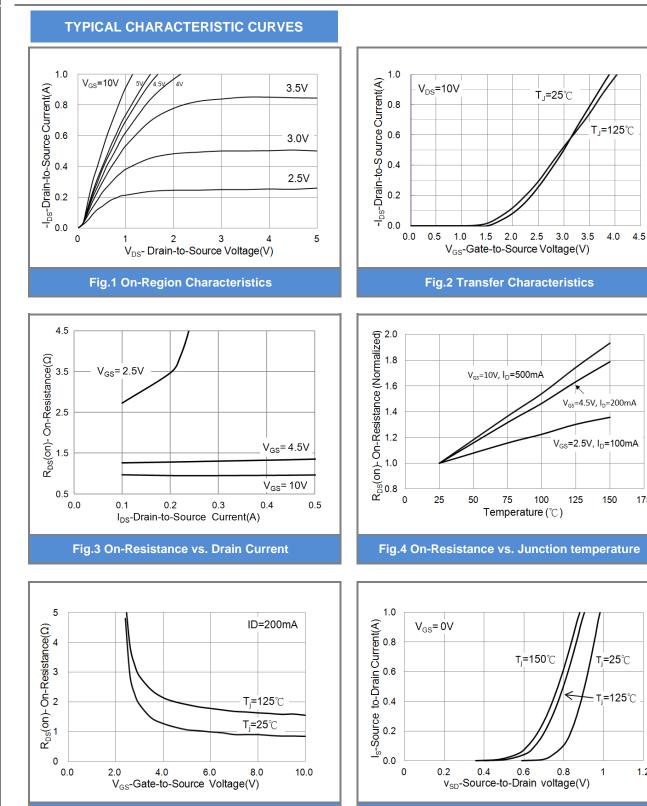
Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static				_	_	_
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V,I _D =250uA	50	-	-	V
Gate Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=250$ uA	0.8	1.0	1.5	V
Drain-Source On-State Resistance		V_{GS} =10V,I _D =500mA	-	0.96	1.6	Ω
	$R_{DS(on)}$	V _{GS} =4.5V,I _D =200mA	-	1.25	2.5	
		V _{GS} =2.5V,I _D =100mA	-	2.73	4.5	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =50V,V _{GS} =0V	-	0.01	1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 20V,V _{DS} =0V	-	<u>+</u> 3.0	<u>+</u> 10	uA
Dynamic						_
Total Gate Charge	Q_{g}	V_{DS} =25V, I _D =250mA, V_{GS} =4.5V ^(Note 1,2)	-	0.63	1	nC
Gate-Source Charge	Q_gs		-	0.2	-	
Gate-Drain Charge	Q_gd		-	0.23	-	
Input Capacitance	Ciss	V _{DS} =25V, V _{GS} =0V,	-	25	50	pF
Output Capacitance	Coss		-	9.5	20	
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	2.1	5	
Switching						
Turn-On Delay Time	td _(on)		-	2.2	5	
Turn-On Rise Time	tr	$V_{DD}=25V, I_{D}=500mA,$ $V_{GS}=10V,$	-	19.2	38	ns
Turn-Off Delay Time	td _(off)		-	6.2	12	
Turn-Off Fall Time	tf	$R_G=6\Omega^{(Note 1,2)}$	-	23	50	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	I _S		-	-	500	mA
Diode Forward Voltage	V _{SD}	I _S =500mA, V _{GS} =0V	-	0.86	1.5	V

NOTES:

- 1. Pulse width <300us, Duty cycle <2%
- 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

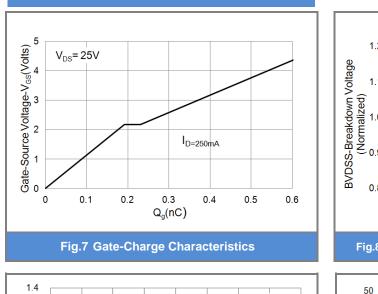




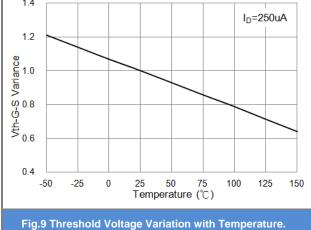
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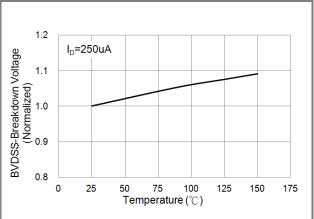
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TYPICAL CHARACTERISTIC CURVES







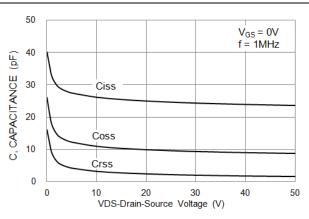


Fig.10 Capacitance vs. Drain-Source Voltage.

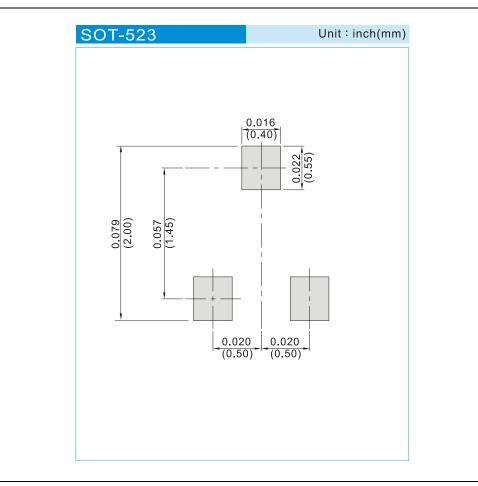




PART NO PACKING CODE VERSION

PART NO PACKING CODE VERSION	Package Type	Packing type	Marking	Version
PJE138K_R1_00001	SOT-523	4K pcs / 7" reel	8KT	Halogen free

MOUNTING PAD LAYOUT







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