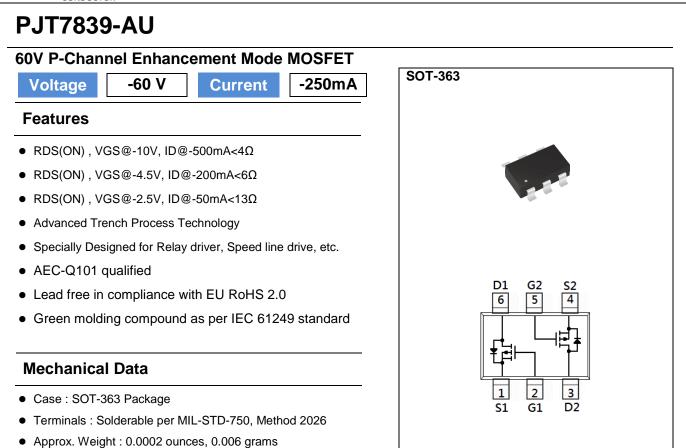
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	SEMI CONDUCTOR



Maximum Ratings and Thermal Characteristics (TA=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Drain-Source Voltage		V _{DS}	-60	V
Gate-Source Voltage		V _{GS}	<u>+</u> 20	V
Continuous Drain Current		ID	-250	mA
Pulsed Drain Current ^(Note 1)		Ідм	-1000	mA
Power Dissipation	T _A =25°C	PD	350	mW
	Derate above 25°C		2.8	mW/ºC
Operating Junction and Storage Temperature Range		TJ,TSTG	-55~150	٥C
Typical Thermal Resistance - Junction to Ambient ^(Note 3)		R _{0JA}	357	°C/W



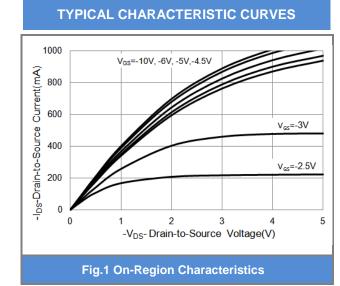
Electrical Characteristics (T_A=25°C unless otherwise noted)

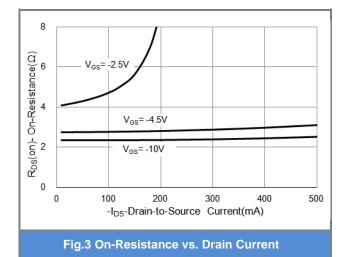
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V,I _D =-250uA	-60	-	-	V
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250uA	-1.0	-1.5	-2.5	V
		V _{GS} =-10V,I _D =-500mA	-	2.4	4	
Drain-Source On-State Resistance	RDS(on)	V _{GS} =-4.5V,I _D =-200mA	-	2.65	6	Ω
		V _{GS} =-2.5V,I _D =-50mA	-	4.5	13	
Zero Gate Voltage Drain Current	IDSS	V _{DS} =-48V,V _{GS} =0V	-	-	-1	uA
Gate-Source Leakage Current	lgss	V _{GS} = <u>+</u> 20V,V _{DS} =0V	-	-	<u>+</u> 100	nA
Dynamic (Note 4)						
Total Gate Charge	Qg	V _{DS} =-25V, I _D =-100mA,	-	1.1	-	nC
Gate-Source Charge	Q _{gs}		-	0.3	-	
Gate-Drain Charge	Q_{gd}	V _{GS} =-4.5V	-	0.2	-	
Input Capacitance	Ciss	V _{DS} =-25V, V _{GS} =0V,	-	51	-	
Output Capacitance	Coss		-	15	-	pF
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	2.2	-	
Turn-On Delay Time	td _(on)		-	4.8	-	
Turn-On Rise Time	tr	V_{DD} =-25V, I _D =-100mA, V _{GS} =-10V, R _G =6Ω ^(Note 1,2)	-	19	-	ns
Turn-Off Delay Time	td _(off)		-	52	-	
Turn-Off Fall Time	tf		-	32	-	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	ls		-	-	-250	mA
Diode Forward Voltage	V _{SD}	I _S =-500mA, V _{GS} =0V	-	-0.95	-1.3	V

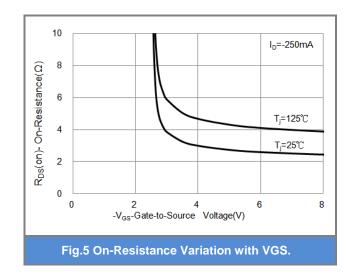
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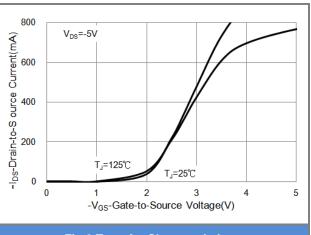
- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. Reja is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins. mounted on a 1 inch square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













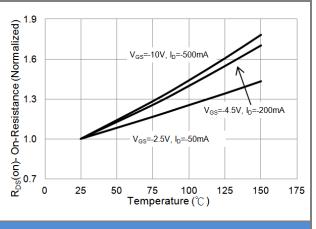
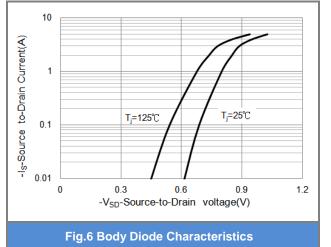
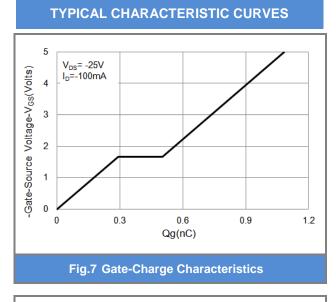
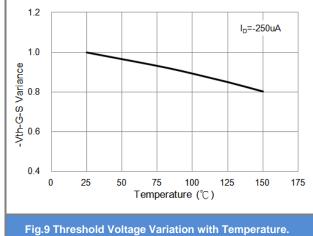


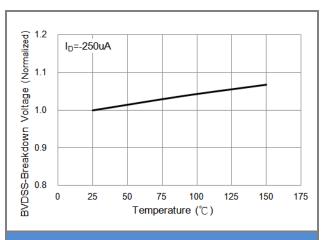
Fig.4 On-Resistance vs. Junction temperature



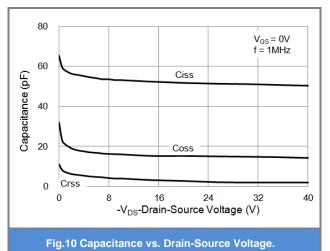










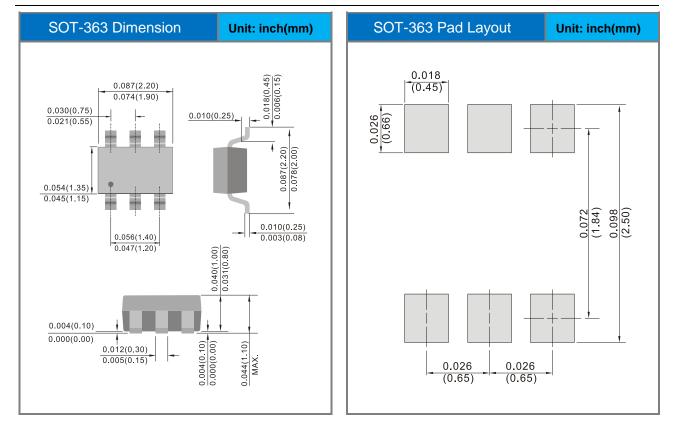




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PJT7839-AU	SOT-363	3K pcs / 7" reel	T39

Packaging Information & Mounting Pad Layout





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