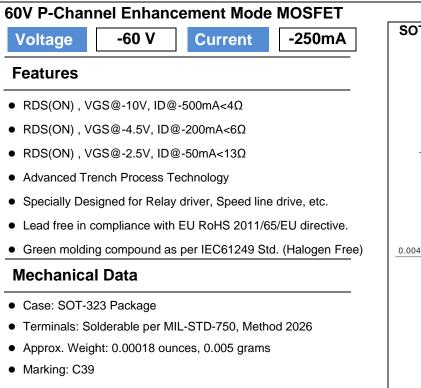
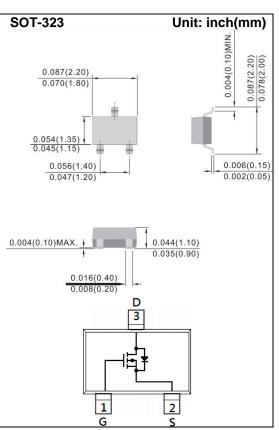
ΡΛΝ	ĴΤ
	SEMI CONDUCTOR





Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}C$ 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		I _D	-250	mA
Pulsed Drain Current		I _{DM}	-1000	mA
Power Dissipation	T _A =25°C	P _D	350	mW
	Derate above 25°C		2.8	mW/°C
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150	°C
Typical Thermal resistance - Junction to Ambient ^(Note 3)		$R_{ extsf{ heta}JA}$	357	°C/W

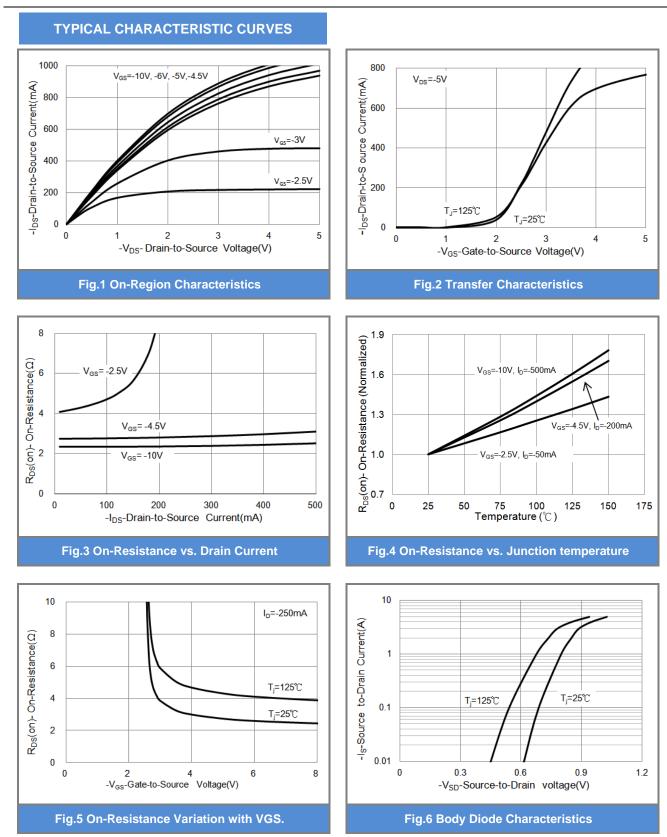


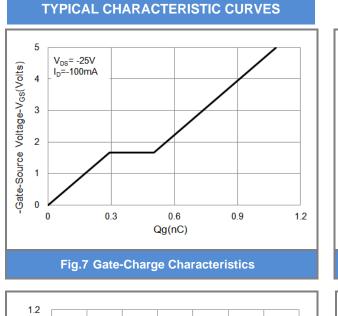
Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

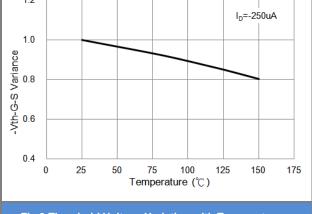
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static						
Drain-Source Breakdown Voltage	BV_{DSS}	V _{GS} =0V,I _D =-250uA	-60	-	-	V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$, $I_{D}=-250uA$	-1.0	-1.5	-2.5	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =-10V,I _D =-500mA	-	2.4	4	Ω
		V _{GS} =-4.5V,I _D =-200mA	-	2.65	6	
		V _{GS} =-2.5V,I _D =-50mA	-	4.5	13	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-48V,V _{GS} =0V	-	-	-1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 20V,V _{DS} =0V	-	-	<u>+</u> 100	nA
Dynamic (Note 4)						-
Total Gate Charge	Q_{g}	V _{DS} =-25V, I _D =-100mA, V _{GS} =-4.5V	-	1.1	-	nC
Gate-Source Charge	Q_gs		-	0.3	-	
Gate-Drain Charge	Q_gd		-	0.2	-	
Input Capacitance	Ciss	V _{DS} =-25V, V _{GS} =0V,	-	51	-	pF
Output Capacitance	Coss		-	15	-	
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,	-	19	-	
Turn-Off Delay Time	td _(off)	V_{GS} =-10V,	-	52	-	ns
Turn-Off Fall Time	tf	$R_{G}=6\Omega^{(Note 1,2)}$	-	32	-	
Drain-Source Diode						
Maximum Continuous Drain-Source Diode Forward Current	I _S		-	-	-250	mA
Diode Forward Voltage	V_{SD}	I _S =-500mA, V _{GS} =0V	-	-0.95	-1.3	V

NOTES :

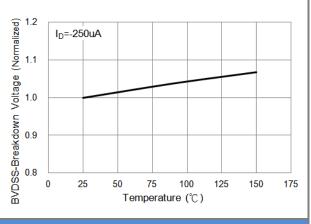
- 1. Pulse width</br>
- 2. Essentially independent of operating temperature typical characteristics.
- 3. ReJA is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins. mounted on a 1 inch square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













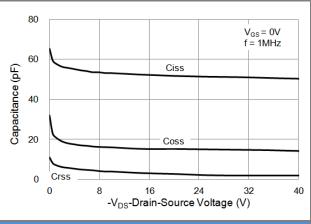


Fig.10 Capacitance vs. Drain-Source Voltage.

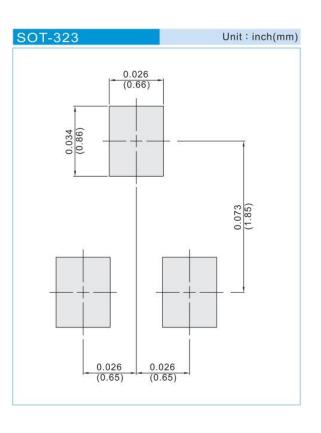




PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing type	Marking	Version
PJC7439_R1_00001	SOT-323	3K pcs / 7" reel	C39	Halogen free
PJC7439_R2_00001	SOT-323	12K pcs / 13" reel	C39	Halogen free

MOUNTING PAD LAYOUT







Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.