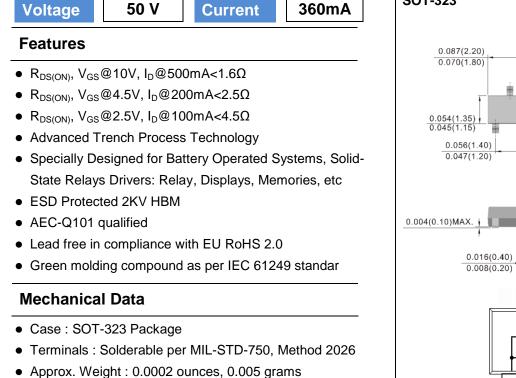
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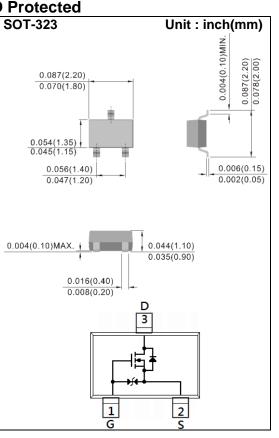
Ρ	JC1	38K-	AU

50V N-Channel Enhancement Mode MOSFET – ESD Protected



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

PARAM	ETER	SYMBOL	LIMIT	UNITS	
Drain-Source Voltage	V _{DS}	50	N		
Gate-Source Voltage	V _{GS}	<u>+</u> 20	V		
Continuous Drain Current (Note 4)		I _D	360		
Pulsed Drain Current (Note 1)		I _{DM}	1200	mA	
	T _A =25°C		236	mW	
Power Dissipation	Derate above 25°C	P _D	1.89	mW/°C	
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150	°C	
Typical Thermal Resistance - Junction to Ambient ^{(Note 3,}	4)	R _{θJA}	530	°C/W	









PJC138K-AU

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	1.5	v
		V _{GS} =10V, I _D =500mA	-	0.96	1.6	
Drain-Source On-State Resistance	$R_{DS(on)}$	V _{GS} =4.5V, I _D =200mA	-	1.25	2.5	Ω
		V _{GS} =2.5V, I _D =100mA	-	2.73	4.5	
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 5)						
Total Gate Charge	Qg	Q _g		0.63	1	
Gate-Source Charge	Q_gs	V _{DS} =25V, I _D =250mA, V _{GS} =4.5V ^(Note 1,2)	-	0.2	-	nC
Gate-Drain Charge	Q_gd	V _{GS} =4.5V	-	0.23	-	
Input Capacitance	Ciss		-	25	50	pF
Output Capacitance	Coss	$V_{DS}=25V, V_{GS}=0V,$	-	9.5	20	
Reverse Transfer Capacitance	Crss	f=1MHZ	-	2.1	5	
Turn-On Delay Time	td _(on)		-	2.2	5	ns
Turn-On Rise Time	tr	$V_{DD}=25V, I_{D}=500mA,$	-	19.2	38	
Turn-Off Delay Time	td _(off)	$V_{GS}=10V,$ $R_G=6\Omega^{(Note 1,2)}$	-	6.2	12	
Turn-Off Fall Time	tf	$R_{G}=0\Omega$	-	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</br>

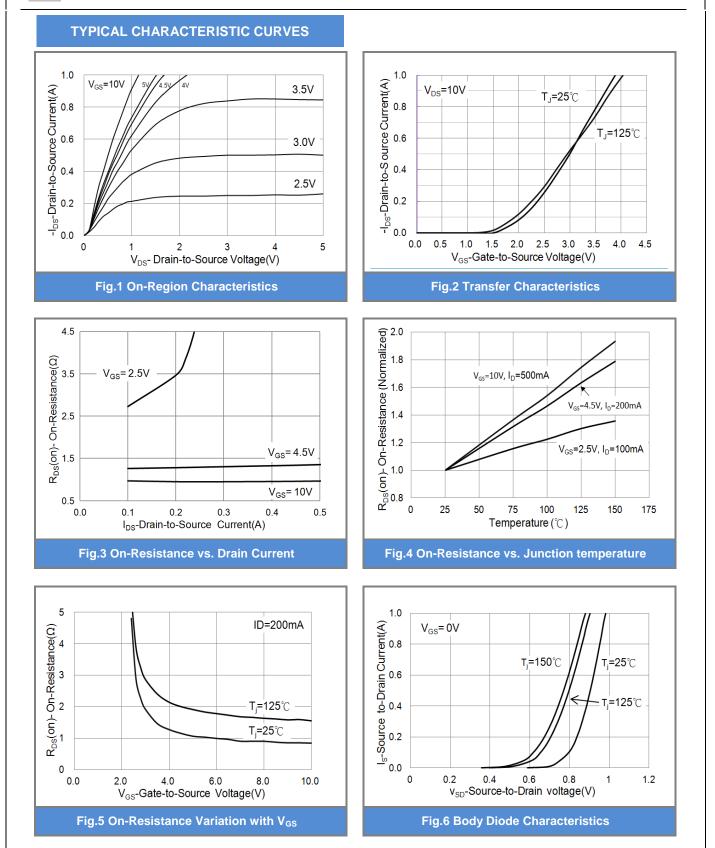
2. Essentially independent of operating temperature typical characteristics.

3. $R_{\Theta JA}$ 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 inch² with 2oz.square pad of copper.

- 4. The maximum current rating is package limited.
- 5. Guaranteed by design, not subject to production testing.

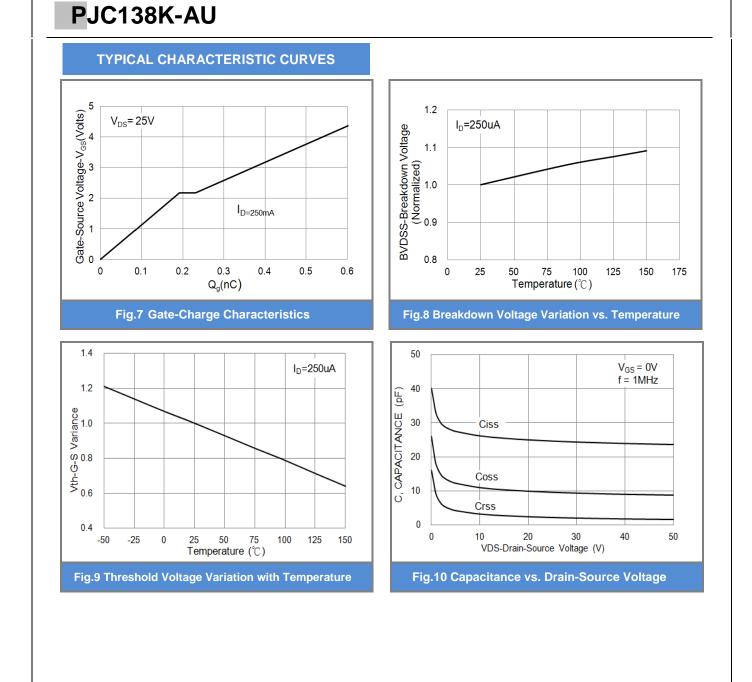
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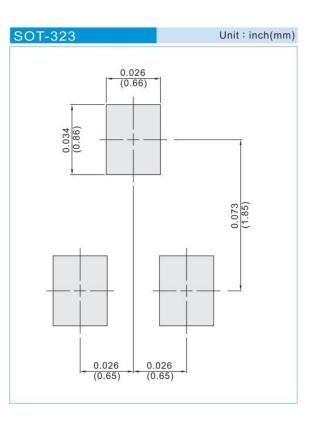


PJC138K-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJC138K-AU_R1_000A1	SOT-323	3K pcs / 7" reel	8KW	Halogen free

Mounting Pad Layout





PJC138K-AU

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