

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

PARAM	SYMBOL	LIMIT	UNITS	
Drain-Source Voltage		V _{DS}	20	V
Gate-Source Voltage		V _{GS}	<u>+</u> 12	V
Continuous Drain Current		ID	2	A
Pulsed Drain Current		I _{DM}	4	А
Power Dissipation	T _a =25°C	_	150	mW
	Derate above 25°C	PD	1.2	mW/ °C
Operating Junction and Storage	T_{J}, T_{STG}	-55~150	°C	
Typical Thermal resistance Junction to Ambient ^(Note 1)		R _{eja}	833	°C/W



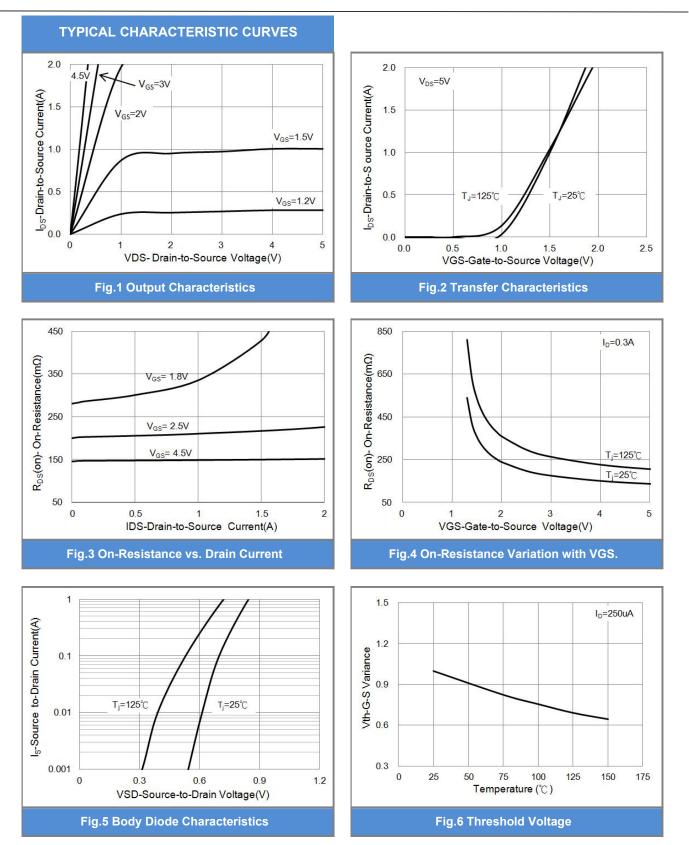
Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Static (Note 2)							
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =250uA	20	-	-	V	
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250uA	0.35	0.72	1.0	V	
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =4.5V, I _D = 0.65A	-	0.15	0.28	Ω	
		V _{GS} =2.5V, I _D = 0.55A	-	0.21	0.35		
		V _{GS} =1.8V, I _D = 0.45A	-	0.31	0.60		
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =20V, V _{GS} =0V	-	0.01	1	uA	
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 12V, V _{DS} =0V	-	<u>+</u> 4	<u>+</u> 50	uA	
Forward Transconductance	g _{FS}	VDS =10V, ID =0.65A	-	1.9	-	S	
Diode Forward Voltage	V _{SD}	I _S =0.15A, V _{GS} =0V	-	0.63	1.2	V	
Dynamic ^(Note 3)							
Input Capacitance	Ciss	V _{DS} =16V, V _{GS} =0V, f=1.0MHZ	-	62	-		
Output Capacitance	Coss		-	24	-	pF	
Reverse Transfer Capacitance	Crss		-	12	-		
Turn-On Delay Time	td _(on)	V _{DD} =10V, I _D =500mA, V _{GS} =4.5V,	-	3	-		
Turn-On Rise Time	tr		-	23	-	ns	
Turn-Off Delay Time	td _(off)		-	12	-		
Turn-Off Fall Time	tf	$R_G=10\Omega^{(Note 1,2)}$	-	19	-		

NOTES :

- 1. $R_{\Theta JA}$ is surface mounted on a 1 inch FR-4 with 2oz. square pad of copper
- 2. Pulse width200us, Duty cycle
- 3. Guaranteed by design, not subject to production testing.



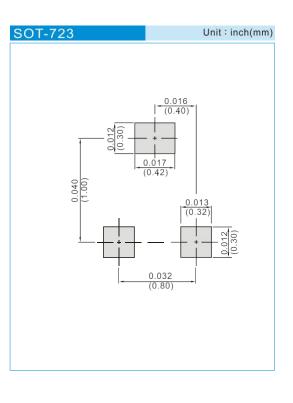




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type
CSM3134S723	SOT-723	8K pcs / 7" reel

MOUNTING PAD LAYOUT





Notice

Specifications of the products displayed herein are subject to change without notice. CCS or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in CCS terms and conditions of sale for such products, CCS assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of CCS products including liability or warranties relating to fitness for a particular purpose, merchant ability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or lifesustaining applications.

Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify CCS for any damages resulting from such improper use or sale.