

/ Descriptions

SOT-323 N MOS

N-Channel MOSFET in a SOT-323 Plastic Package.

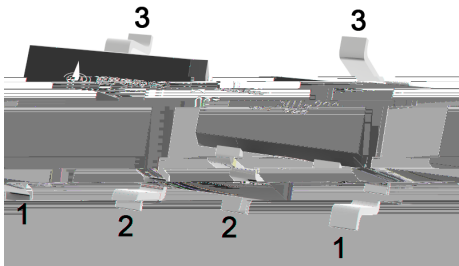
/ Features

2KV

Sensitive gate trigger current and Low Holding current.ESD protected up to 2KV, HF Product.

/ Applications

Intended for use in general purpose switching and phase control applications.

/ Equivalent Circuit**/ Pinning**

Pin1:G

Pin2:S

Pin3:D

/ Marking

See Marking Instructions.

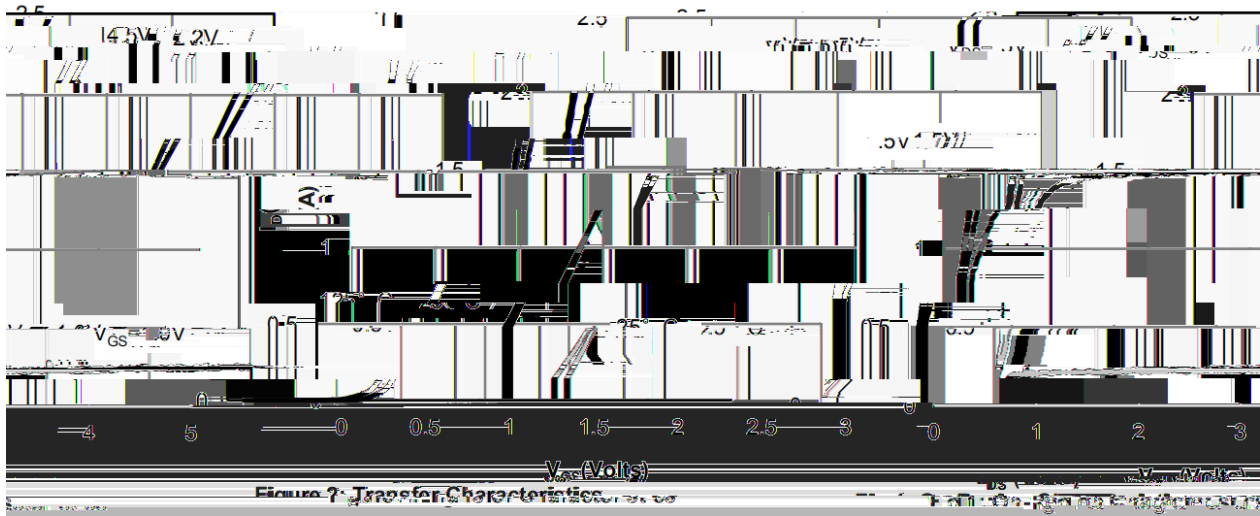
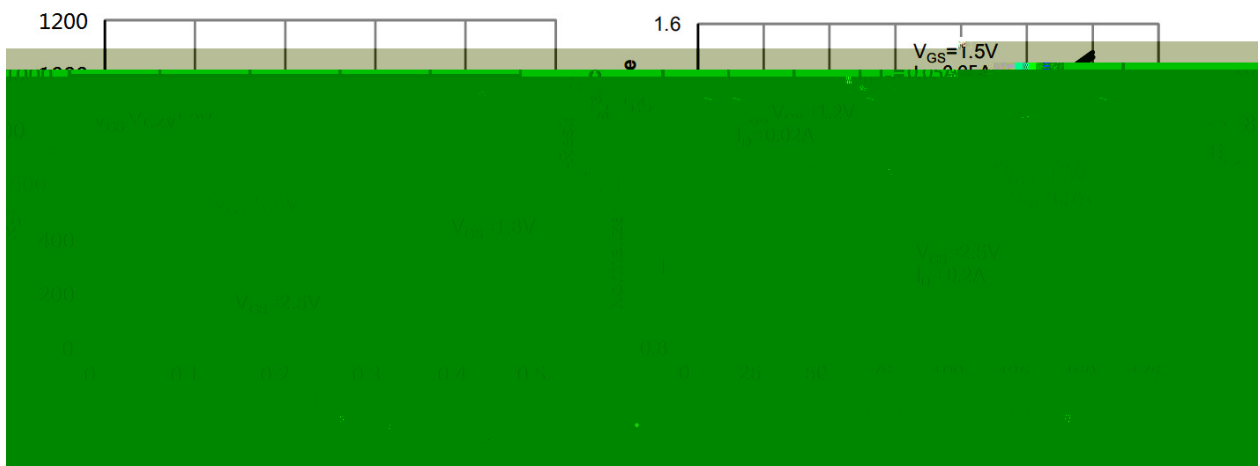
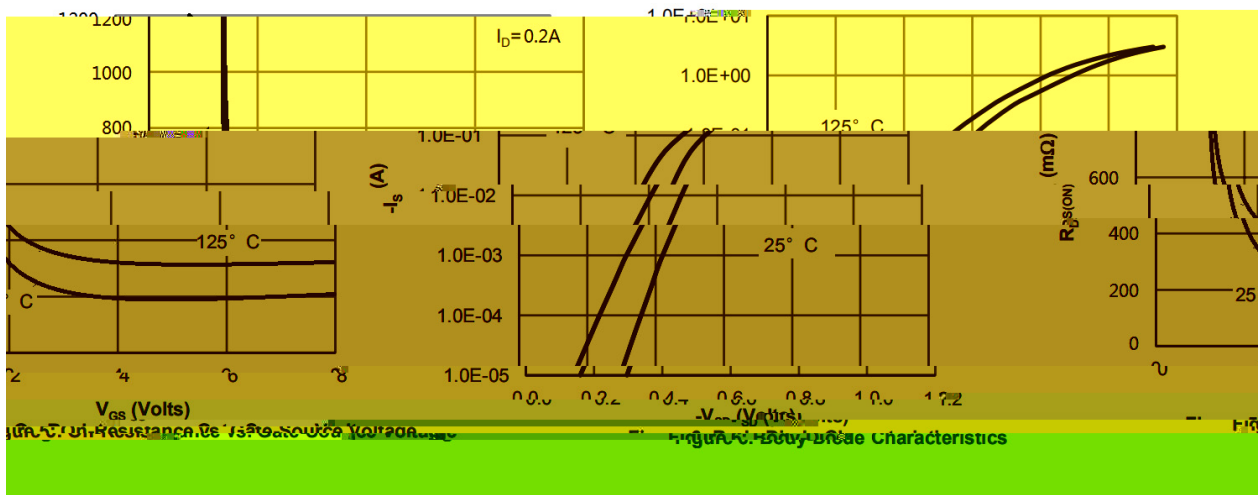
Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DSS}	20	V
Gate-Source Voltage		V_{GSS}	± 8	V
Drain Current – Continuous		I_D	0.75	A
Pulsed Drain Current		I_{DM}	3	
Power Dissipation		P_D	200	mW
Junction and Storage Temperature Range		T_J, T_{stg}	-55 to 150	
Thermal resistance, junction - ambient	$t \leq 10s$	$R_{\theta JA}$	450	/W
	Steady-State		570	

							Unit
Drain–Source Breakdown Voltage	V_{DSS}	$V_{GS}=0$	$I_D=250\mu A$	20	22.9		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{GS}=0$	$V_{DS}=20V$			1	μA

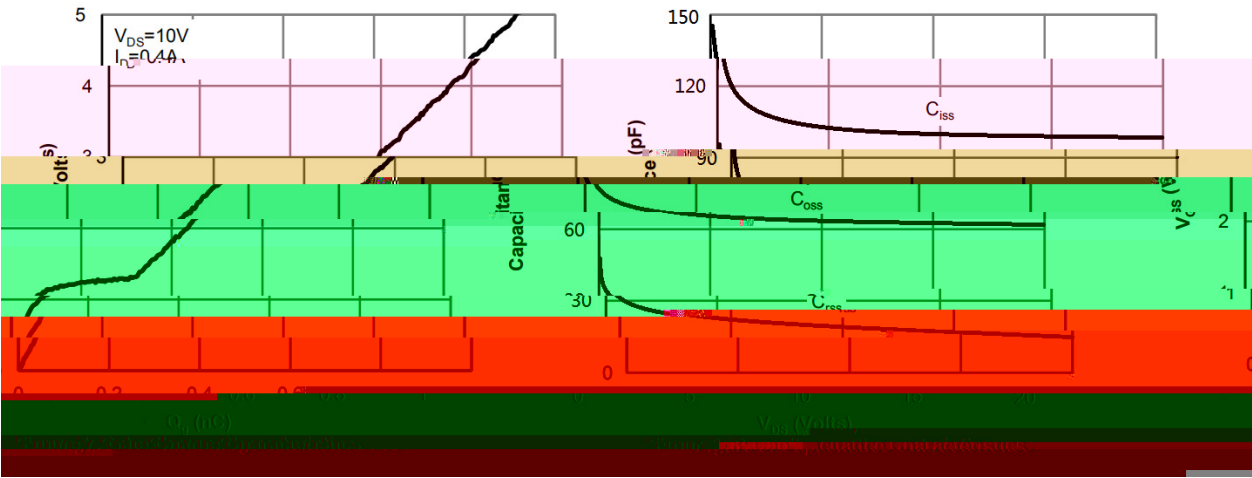
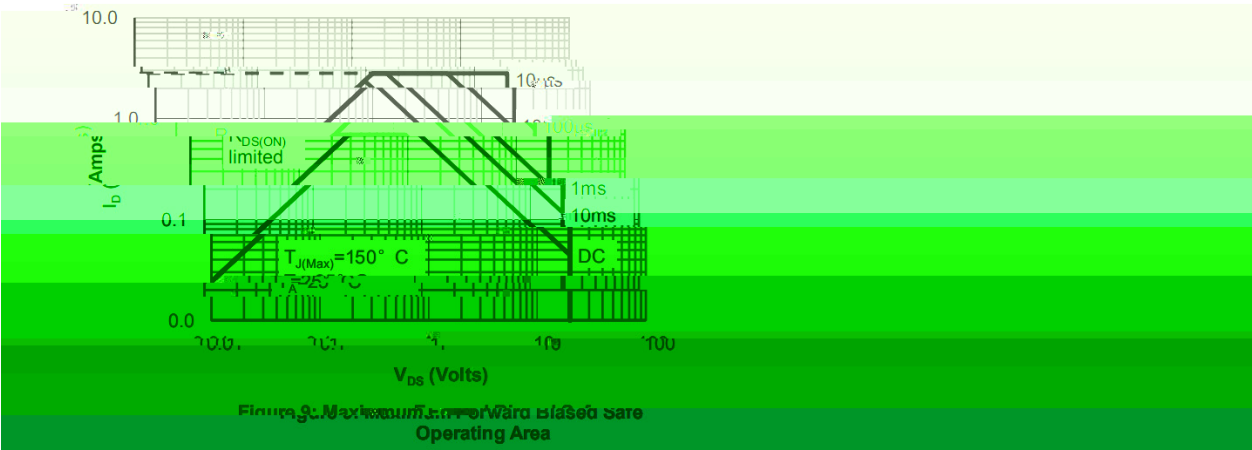
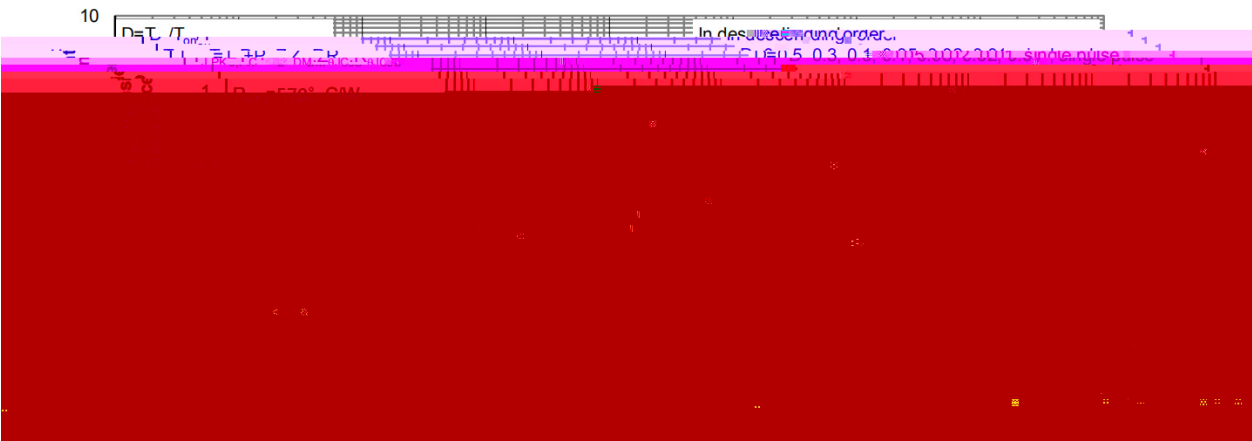
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	Q_g	$V_{GS}=4.5V,$ $I_D=0.4A$ $V_{DS}=10V,$		0.85		nC
Gate Source Charge	Q_{gs}			0.1		
Gate Drain Charge	Q_{gd}			0.25		
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=4.5V$ $R_L=25\Omega$ $V_{DS}=10V$ $R_{GEN}=3\Omega$		2		ns
Turn-On Rise Time	t_r			4		ns
Turn-Off Delay Time	$t_{d(off)}$			18		ns
Turn-Off Fall Time	t_f			8		ns

/ Electrical Characteristic Curve



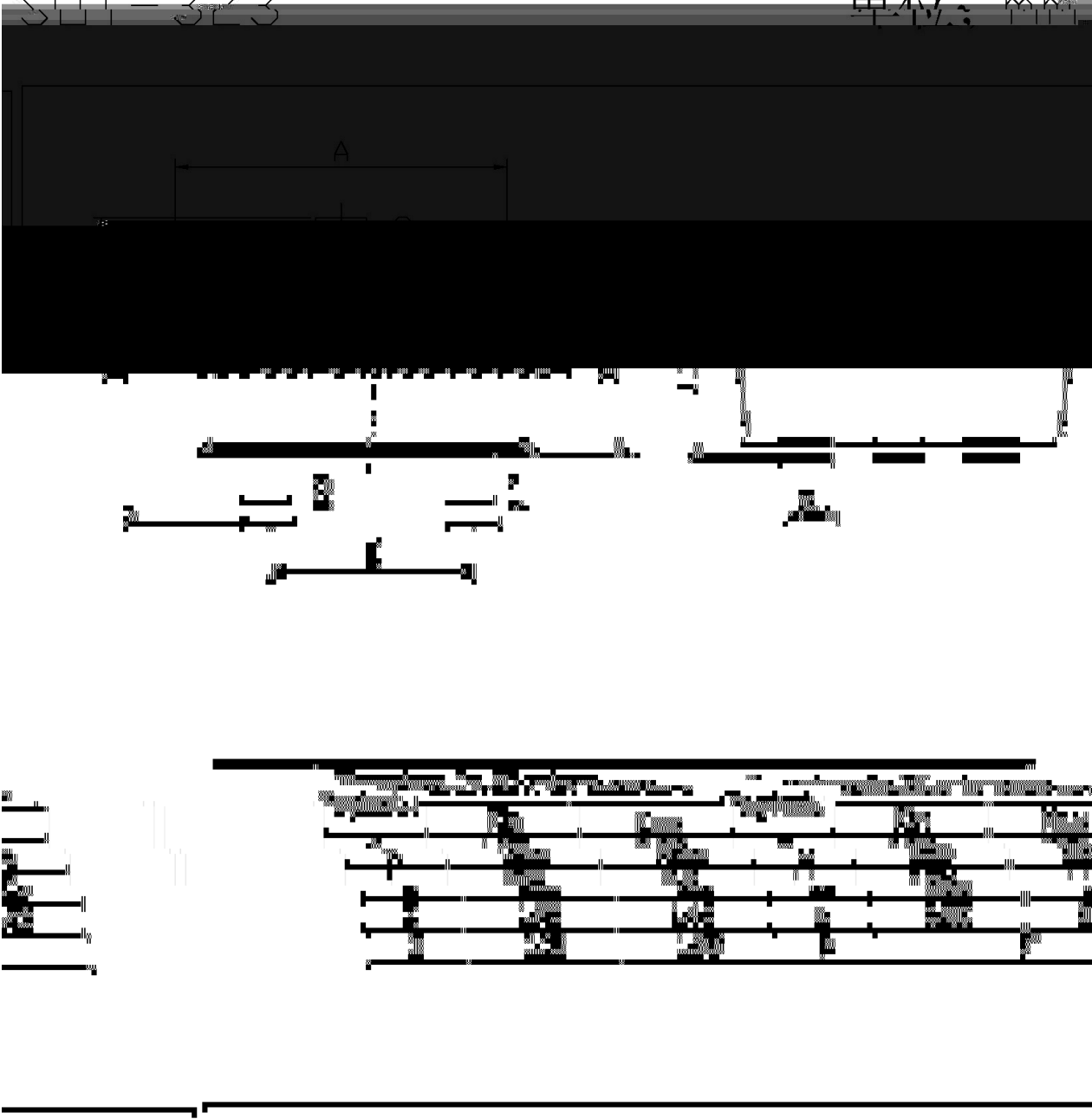
Electrical Characteristic Curve



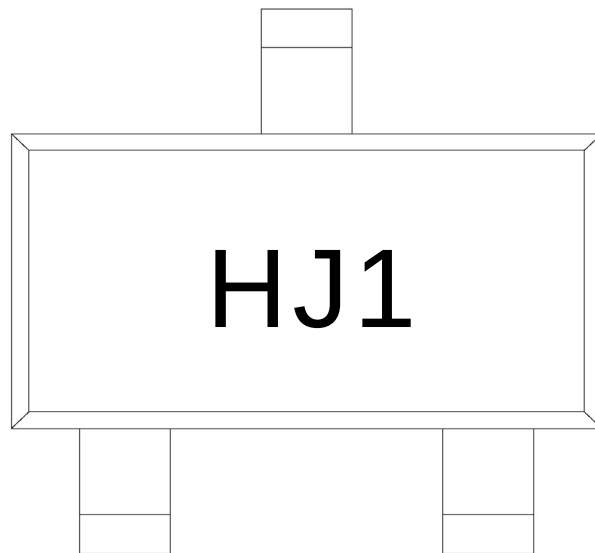
/ Package Dimensions

SOT-323

单位: mm



/ Marking Instructions



H

J1

Note:

H: Company Code

J1: Product Type Code

BRCS3134WA